

## U.S. FOOD AND DRUG ADMINISTRATION

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CENTER FOR DEVICES AND RADIOLOGICAL HEALTH  
MEDICAL DEVICES  
ADVISORY COMMITTEE

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## MEETING

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TUESDAY,  
OCTOBER 11, 2005

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The meeting convened in the Ballroom Salons A and B of the Hilton Washington D.C. North, 620 Perry Parkway, Gaithersburg, Maryland, 20877, at 9:19 a.m., pursuant to notice, Jon B. Suzuki, D.D.S., Ph. D. MBA, Chair, presiding.

## COMMITTEE MEMBERS PRESENT:

JON B. SUZUKI, D.D.S., Ph.D., MBA. Chair  
 MICHAEL E. ADJODHA, MchE Executive  
 SALOMON AMAR, D.D.S., Ph.D., Voting Member  
 LEIF K. BAKLAND, D.D.S., Consultant  
 DAVID L. COCHRAN, D.D.S., Voting Member  
 B. GAIL DEMKO, D.M.D., Consultant  
 ELIZABETH S. HOWE, Non-Voting Member, Consumer Rep.  
 WILLIAM J. O'BRIEN, M.S., Ph.D., Voting Member  
 DANIEL R. SCHECHTER, J.D., Non-Voting Member, Consumer Rep.  
 DOMENICK T. ZERO, D.D.S., M.S., Voting Member  
 JOHN R. ZUNIGA, Ph.D., D.M.D, Voting Member  
 CHIU S. LIN, Ph.D., FDA

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P-R-O-C-E-E-D-I-N-G-S

9:19 a.m.

CHAIRMAN SUZUKI: Convenes conference.

EXECUTIVE SECRETARY ADJODHA: Thank you, Chairman Suzuki. My name is Michael Adjodha. I'm Executive Secretary of the Dental Products Panel.

Allow me to introduce the members of our panel. Please raise your hand as I call your name.

The Chairman of the Dental Products Panel is Dr. Jon Suzuki. Chairman Suzuki is a periodontist and is a microbiologist, and is Associate Dean of the School of Dentistry at Temple University, Philadelphia, Pennsylvania.

Joining him are the following panel members. Dr. Amar isn't here right now, he's delayed at the airport, I expect him shortly. He's a periodontist and is a Professor at the School of Dental Medicine at Boston University, Boston, Massachusetts.

Dr. David Cochran is a periodontist and is Professor and Chairman at the Health Science Center at

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1 the University of Texas, San Antonio, Texas.

2 Ms. Elizabeth Howe is a consumer  
3 representative, and she is President of Non-Profit  
4 Consultants, Auburn, Washington.

5 Dr. William O'Brien is a materials  
6 engineer, and he's a professor at the School of  
7 Dentistry at the University of Michigan, Ann Arbor,  
8 Michigan.

9 Mr. Daniel Schechter is our industry  
10 representative, and he is General Counsel for Parkell,  
11 Incorporated, Farmingdale, New York.

12 Dr. Domenick Zero is a cariologist and is  
13 Professor and Chairman at the School of Dentistry of  
14 Indiana University, Indianapolis, Indiana.

15 Dr. John Zuniga is an oral surgeon and is  
16 Professor at the School of Dentistry at the University  
17 of North Carolina at Chapel Hill, Chapel Hill, North  
18 Carolina.

19 Joining the panel are the following  
20 consultants. Dr. Leif Bakland is an endodontist and  
21 is Professor at the School of Dentistry of Loma Linda  
22 University, Loma Linda, California.

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1                   And, Dr. Gail Demko is a dentist in  
2 private practice in Newton Highlands, Massachusetts,  
3 who specializes in oral appliances for the treatment  
4 of sleep apnea.

5                   Joining us at the table is Dr. Chiu Lin.  
6 He is Director of the FDA's Division of  
7 Anesthesiology, Infection Control, General Hospital  
8 and Dental Devices.

9                   I will now read into the record the  
10 conflict of interest statement for this meeting.

11                   FDA is convening today's meeting of the  
12 Dental Products Panel of the Medical Devices Advisory  
13 Committee under the authority of the Federal Advisory  
14 Committee Act of 1972. With the exception of the  
15 industry representative, all members and consultants  
16 of the panel are special government employees or  
17 regular federal employees from other agencies, and are  
18 subject to the Federal Conflict of Interest laws and  
19 regulations.

20                   The following information on the status of  
21 this panel's compliance with the Federal Ethics and  
22 Conflict of Interest laws governed by, but not limited

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1 to, those found in Title 18 of the U.S. Code, Section  
2 208, and Title 21 of the U.S. Code, Sections  
3 355(n)(4), is being provided to participants in  
4 today's meeting and to the public.

5 FDA has determined that members and  
6 consultants of this panel are in compliance with  
7 Federal Ethics and Conflict of Interest laws. Under  
8 Title 18 of the U.S. Code, Section 208, Congress has  
9 authorized FDA to grant waivers to special government  
10 employees of limited financial conflicts when it is  
11 determined that the agency's need for a particular  
12 individual's service outweighs his or her potential  
13 conflict of interest.

14 Members and consultants of this panel and  
15 special government employees in today's meeting have  
16 been screened for potential financial conflicts of  
17 interest of their own, as well as those imputed to  
18 them, including those of their employer, spouse, or  
19 minor child, related to discussions of today's  
20 meeting. These interests may include investments,  
21 consulting, expert witness testimony, contracts,  
22 grants, CRADAs, teaching, speaking, writing, patent,

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1 patents and royalties, and primary employment.

2 Today's agenda involves a discussion of  
3 general issues related to the classification of  
4 several unclassified dental pre-Amendments devices. In  
5 accordance with Title 18, U.S. Code, Section 208(b)(3)  
6 a waiver has been granted to Dr. Domenick Zero. A  
7 copy of the conflict of interest waiver statement may  
8 be obtained by submitting a written request to the  
9 agency's Freedom of Information office, Room 12A30 at  
10 the Parklawn Building in Rockville, Maryland.

11 Mr. Daniel Schechter is participating as  
12 an industry representative, acting on behalf of all  
13 industry, related industry, and is employed by  
14 Parkell, Incorporated.

15 We would like to remind members and  
16 consultants that if the discussions involve any other  
17 products or firms not already on the agenda, for which  
18 an FDA participant has a personal or imputed financial  
19 interest, the participants need to exclude themselves  
20 from such involvement and the exclusion will be noted  
21 for the record.

22 FDA encourages all participants to advise

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1 the panel of any financial relationships which you  
2 have with any firms at issue.

3 This conflict of interest statement will  
4 be available for review at the registration table.

5 I'd finally like to request everyone in  
6 attendance at this meeting take the opportunity to  
7 sign the attendance sheet at the front table. Please  
8 also turn off your cell phone ringers, so as not to  
9 disrupt this meeting.

10 Thank you.

11 Chairman Suzuki?

12 CHAIRMAN SUZUKI: Okay, thank you, Mr.  
13 Adjodha.

14 Before we begin the meeting, we have two  
15 informational presentations by the FDA, one on the  
16 Critical Path Initiative by Dr. Larry Kessler, and the  
17 other on Post-Market Study Design by Dr. Tom Gross.

18 Is Dr. Kessler present?

19 Okay, is Dr. Gross here?

20 DR. GROSS: Okay, good morning. I'm Tom  
21 Gross, I'm the Director of the Division of Post-Market  
22 Surveillance, and I'd like to take a few minutes of

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1 your time today to talk about recent changes in our  
2 condition of approval study program.

3 Before I do that, I'd like to talk to you  
4 a little bit about our office, that is the Office of  
5 Surveillance and Biometrics, which is now responsible  
6 for the condition of Approval Study Program.

7 Now, there's some basic functions that our  
8 office serves for the Center. First and foremost, we  
9 provide support for pre-market review. We have about  
10 50 statisticians who provide support for all  
11 statistical aspects of pre-market submissions. We  
12 have about a dozen epidemiologists who are involved  
13 with PMA reviews and helping to design and conduct  
14 condition of approval studies.

15 Our office is also responsible for  
16 detecting signals of potential public health problems  
17 through our nationwide passive adverse event reporting  
18 systems, namely, our mandatory system, the medical  
19 device or MDR reporting system, and our MedSun system,  
20 the medical device safety network, which is comprised  
21 of 350 healthcare institutions throughout the United  
22 States who report on clinical events in their

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1 institutions.

2 We are also responsible for characterizing  
3 the risk of potential public health problems. Our  
4 epidemiologists are in charge of this, and they use a  
5 variety of tools from literature reviews to conducting  
6 and designing de novo studies.

7 We are also responsible for coordinating  
8 center responses on actions regarding these potential  
9 public health issues. We convene expert panels within  
10 the Center to deliberate these issues and offer  
11 recommendations to Center senior management.

12 And lastly, we are responsible for  
13 interpreting our medical device reporting regulation,  
14 what needs to be reported and violations of that  
15 regulation.

16 Now, let's move on to condition of  
17 approval studies. As you all know, these studies are  
18 ordered as a condition of approval for PMA devices.  
19 Our regulations clearly stipulate that these post-  
20 approval requirements can include the continuing  
21 evaluation and periodic reporting on the safety,  
22 effectiveness and reliability of the devices for its

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1 intended use. This regulation gives us our broad  
2 authority in mandating these condition of approval  
3 studies.

4 Now in 2002, our Center took a look at how  
5 well we were doing with these studies. To that end,  
6 we looked at PMAs that were approved from 1998 through  
7 the year 2000. All tolled, there were 127 PMAs that  
8 were approved, and about a third of those had clinical  
9 condition of approval study orders.

10 The bottom line of our evaluation was the  
11 following, that CDRH had limited procedures for  
12 tracking study progress or results, that our IT and  
13 other systems were very deficient in this regard.  
14 There's large turnover of lead reviewers that resulted  
15 in lack of follow-up. Approximately, 40 percent of  
16 those reviewers who were assigned to the PMA at the  
17 time of submission were no longer associated with that  
18 PMA at the time of this study in 2002. And lastly,  
19 there were lack of pre-market resources. Those  
20 resources were appropriately devoted to pre-market  
21 reviews and pre-market submissions, leaving little  
22 left over for post-market oversight.

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1                   Now, based on these study results, and  
2 based on a pilot that we had underway in which  
3 epidemiologists were part of the PMA review teams, we  
4 developed a strategy for change, and the goals for  
5 that change were very simple, which was to obtain  
6 useful and quality post-market information as the  
7 device enters the market, to obtain real-world use  
8 data, to better characterize the risk and benefit  
9 profile of these devices, for instance, their long-  
10 term performance, and lastly, to add to our ability to  
11 make sound scientific decisions based on timely and  
12 quality information.

13                   Now, what did we do in terms of this  
14 change? We transferred the condition of approval  
15 study program from the pre-market side to the post-  
16 market side, from the Office of Device Evaluation to  
17 our office, the Office of Surveillance and Biometrics.  
18 We did so because we had the resources and the  
19 expertise to handle these studies. We developed and  
20 instituted an automated tracking system for these  
21 studies that were instituted this year in April, to  
22 acknowledge the receipt of study protocols and interim

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1 reports, and to follow-up when reports were not  
2 received.

3 As a result of the success of our pilot,  
4 we now have epidemiologists who are part of all PMA  
5 review teams, and their functions are the following.  
6 They are tasked with the development of post-market  
7 monitoring plans during pre-market review, how to best  
8 monitor these products for safety issues in the post-  
9 market period. They take the lead in developing well-  
10 formulated post-market questions, leading in the  
11 design of these studies, leading in the evaluation of  
12 the study progress and results after approval, and  
13 they continue to work with the PMA throughout -- with  
14 the PMA team throughout this process.

15 We also address the motivation for better  
16 study conduct. How can the agency, as well as  
17 industry, do a better job in the conduct of these  
18 studies? First and foremost, we have to agree as to  
19 what important post-market questions need to be  
20 addressed, and then to design adequate and quality  
21 study protocols to address those questions. We need  
22 to acknowledge the receipt of the protocols and the

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1 interim reports, as I previously noted, and to provide  
2 feedback on the studies in real time.

3 For the agency to be more transparent we  
4 are planning on posting the study status of these  
5 condition of approval studies on an agency website,  
6 and lastly, we do have the authority to mandate post-  
7 market studies under other authorities if these are  
8 not adequately done under our condition of approval  
9 authority.

10 Lastly, what's the impact on the Advisory  
11 Panel? During the approval process, we will attempt  
12 to lay out the important post-approval public health  
13 questions, and the possible approaches for panel  
14 consideration. And then, during the post-market  
15 period, FDA or industry will update the panel on the  
16 progress and results of these studies.

17 That concludes my remarks. Thank you very  
18 much.

19 CHAIRMAN SUZUKI: We can now call on Doctor  
20 Kessler.

21 DR. KESSLER: Good morning. I'm not Sousan  
22 Altaie, as you can see from the slides up there. I'm

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1 giving the presentation in her stead. My name is  
2 Larry Kessler, I'm the Director of the Office of  
3 Science and Engineering Laboratories. Most of you  
4 probably don't know about the Office of Science and  
5 Engineering Laboratories. If you have a question  
6 about us, we'll spend a few minutes afterward, but  
7 today I'm here to talk to you in Sousan's stead about  
8 the Critical Path Initiative in Medical Devices, part  
9 of the Critical Path Initiative for the entire Food  
10 and Drug Administration started by then Commissioner  
11 Mark McClellan as couple of years ago.

12 So today, in about the next ten to 15  
13 minutes, I'm going to talk to you about our Critical  
14 Path Initiative, what it is, why we are interested,  
15 what are the critical path tools, and the medical  
16 device areas of specific interest to us, and hopefully  
17 to you, what are medical device critical path  
18 projects, we have a few ongoing and I'll talk about a  
19 couple of them, and then ways in which you, the panel  
20 members, can get involved in the Critical Path  
21 Initiative.

22 What the FDA's Critical Path Initiative

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1 is, is a serious attempt to make product development  
2 more predictable and less costly. I want to focus for  
3 a second on both of those, because one of the problems  
4 that we have heard over and over from our industry is  
5 that the difficulty that they have in planning or  
6 working with the FDA has to do with predictability.  
7 When we don't know the right questions to ask, or when  
8 we go back and forth with a company about trying to  
9 figure out how to put something on the market, it  
10 makes it harder for them to do their job, harder for  
11 us to do our job, and everyone would like less costly  
12 review process, as well as what we can do to get  
13 things on the market more efficiently.

14 This fairly simple diagram is a rather  
15 easy way to understand what we view as where we fit in  
16 in the critical path process from very basic research  
17 and prototype design or discovery through actually  
18 getting a product on the market. Some time after  
19 clinical development, and in between market  
20 application and approval, trying to figure out how to  
21 get the product on the market involves the Food and  
22 Drug Administration.

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1           Prior to that, from the very part of the  
2 design or discovery through getting things through  
3 FDA, we consider that the critical path. A lot of the  
4 work done there by industry are in lab studies, pre-  
5 clinical animal studies, bench studies, as well as  
6 clinical trials. The degree to which we can improve  
7 what's predictable in that period, and the kind of  
8 science and applied science that can be done to  
9 effectively get products on the market, we think will  
10 help the industry and help patients ultimately.

11           Some people might ask, why isn't this the  
12 job, not only of industry, but also sometimes of the  
13 National Institutes of Health? While they are  
14 valuable partners, they tend to leave themselves way  
15 back on the left-hand side of that diagram, so the  
16 bulk of NIH research you'll find in the basic research  
17 arena, maybe sometimes in design or discovery, and for  
18 devices rarely, but occasionally, in clinical  
19 procedures and clinical trials.

20           Why are we interested? Well, I'm going to  
21 digress from Sousean's slide for just a minute, and try  
22 and give you a little bit of background. The big

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1 initiative for the entire agency's Critical Path  
2 process began with the clear recognition of things,  
3 not in the device arena, but in the drug and biologic  
4 arena. The pipeline in drugs and biologics has been  
5 shrinking over the past five years dramatically. The  
6 number of new molecular entities approved, the number  
7 of new drugs coming to market, has shrunk  
8 dramatically. Some of the concern at the agency level  
9 was related to what they thought was difficulties  
10 getting products through to market, and Dr. McClellan,  
11 and after him both Dr. Woodcock and Dr. Crawford,  
12 thought it was important to try and focus on  
13 scientific and technical issues that were inhibiting  
14 products from getting to market, and the early focus  
15 was drugs, and not devices, principally because the  
16 device industry has remained relatively healthy over  
17 the past decade, and the amount of turnover that we  
18 see in terms of new products has not abated.

19           Nevertheless, we felt there still were  
20 significant things that FDA could do, working with our  
21 academic colleagues, our clinical colleagues, and our  
22 industry partners, to improve the process via putting

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1 some attention in what we considered the critical path  
2 for device development.

3 So, we remain interested from the Center  
4 for Device and Radiological Health because of  
5 significant benefit of bringing innovative products to  
6 the public faster, because of our unique perspective  
7 on product development. One of the things that most  
8 people don't recognize is that we not only see the  
9 successes of products, we see the failures. An  
10 individual company will certainly see its own  
11 successes and failures, they will not often have a  
12 wide perspective on a product type across many  
13 companies.

14 In addition, our involvement in the  
15 Critical Path Initiative will help us develop guidance  
16 and standards that foster innovation and improve the  
17 chances of success of products getting through our  
18 system. While we have an extraordinarily high  
19 approval rate, there still are a number of cases where  
20 we think things can be improved.

21 So, we want to work together, as I've  
22 said, with industry, academia and patient care

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1 advocates, and we are trying to modernize, develop and  
2 disseminate solutions or tools, applied technology  
3 tools, applied research tools, that will address  
4 scientific hurdles that will impact an industry-wide  
5 product development.

6 We are focused on three areas, an  
7 assessment of safety, and I suspect this is a good  
8 thing that follows Tom Gross' presentation, if he  
9 remained in the audience, how to predict if a  
10 potential product will be harmful. So, we are looking  
11 at a variety of techniques, not only mining the  
12 currently available post-market experience data we  
13 have, but also trying to develop computer simulation  
14 models and other tools and techniques that could help  
15 predict safety issues.

16 We are also looking to see if we can  
17 improve tools that will determine the potential  
18 product will have medical benefit, and this, indeed,  
19 can be a challenge because the sine qua non of our  
20 evidence-based system these days is a randomized  
21 trial, trying to figure out how randomized trials can  
22 be supplanted by other tools and techniques is always

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1 a challenge in the device area, particularly hard  
2 because there are trials that cannot be done  
3 sometimes, but trying to prove efficacy always proves  
4 a little bit challenging.

5 And finally, and this is something that  
6 you may have a sense of, if you've looked at the  
7 unfortunate headlines over the past year, and week in  
8 and week out look at the FDA and seen our recalls,  
9 seem to be rather exciting sadly, manufacturing  
10 products can be a challenge, very difficult. We have  
11 a really interesting example. I won't mention the  
12 specific product, you can probably guess what it is,  
13 launch for this product was about a year and a half  
14 ago, it was one of the most exciting products in the  
15 medical device development. And, interestingly  
16 enough, in one of the very unusual cases the Center  
17 for Medicare and Medicaid Services approved  
18 reimbursement for this exciting product months before  
19 we approved it. And, the months of delay had nothing  
20 to do with the panel or the clinical trials, it all  
21 had to do with getting this major national company up  
22 to speed in manufacturing a reliable product under the

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1 quality system requirements. And, this is a major  
2 international company, with a major blockbuster  
3 product that was withheld from market for months,  
4 months and months. And, even reimbursement was  
5 settled, which is almost never the case, and this was  
6 about a year and a half ago, so I'll leave it to you  
7 to guess. I don't want to mention the company,  
8 because it may suggest that they are not -- they  
9 didn't do a good job. It's hard to manufacture a  
10 complicated medical device and do so under the quality  
11 system requirements.

12 So, these are three areas, assessment of  
13 safety, proof of efficacy, industrialization, where we  
14 think applied research tools and working together with  
15 industry, academic, our clinical colleagues and  
16 patient advocates, could prove beneficial.

17 And, examples of those tools are as  
18 follows. I mentioned computer simulations, the middle  
19 of the slide, biomarkers, and what we are trying to do  
20 in enhancing our understanding of the way in which  
21 biomarkers work is another example. As Tom probably  
22 told you toward the end of the slide, trying to figure

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1 out how we can improve post-market reporting, improve  
2 our feedback process, and speed up the  
3 intergenerational time of the device pathway, and  
4 there are a number of opportunities that I'll talk  
5 about real briefly.

6 I just want to remind you that while a lot  
7 of this initiative did start with the drugs, and we  
8 use drugs a lot as a stalking horse sometimes, devices  
9 are very different. They aren't simple molecules,  
10 there tend to be complex components, and the other  
11 thing I want to point to which turned out to be really  
12 critical in understanding how devices work is about  
13 three quarters of the way down the right side, what we  
14 call use error, I apologize it says user error, we are  
15 trying to get away from that terminology and use the  
16 sense of use error. Devices, unlike drugs, almost  
17 always have, not only the patient and the product  
18 itself, but a clinician involved, often a doctor or a  
19 nurse, and an environment, and those four things  
20 contribute to device problems that we don't see at the  
21 same level in the drug world. So, understanding how  
22 use errors occur can be critical, and our trying to

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1 understand them, and industry trying to understand  
2 them to prevent them, is the kind of thing we are  
3 looking at in the Critical Path.

4 Device safety tools, we are developing a  
5 biocompatibility database, which could be very  
6 efficacious if we can make it public, so that  
7 companies can speed their products to market, and  
8 review what's in the database, and avoid using certain  
9 products that would be in-biocompatible with the human  
10 body. We are looking at effective products on disease  
11 or injured tissues. In my laboratories, we have at  
12 least three different models of damaged organs or ill  
13 animal models that can be used to test products  
14 against. When you test products against healthy  
15 animals you get certain kinds of results, you test the  
16 same ones against sick or diseased animals or their  
17 organs, and you may get different answers, and because  
18 products in the medical arena are used most often with  
19 disease patients, animal models of compromised health  
20 can be valuable to assessing safety issues.

21 For effectiveness tools, we've been  
22 talking with a number of companies about using

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1 surrogate endpoints for cardiovascular clinical  
2 trials, and one of our colleagues, Charles Taylor in  
3 Stanford, is doing some computer simulation modeling  
4 and collaborating with us for implanted devices.

5 In mass manufacture industrialization, I  
6 think it's an area that's been very long neglected,  
7 and we only have fledgling work in this area, and we'd  
8 really be excited about more concerted effort in  
9 industrialization, trying to develop practice  
10 guidelines for follow-up of implanted devices, and  
11 look at validated training tools for devices with a  
12 known learning curve. As I said, a lot of devices run  
13 into problems in the clinical or community setting,  
14 because of the user and the environment, and we are  
15 trying to improve how we get people up to speed on  
16 known devices, or devices with a known learning curve.

17 So, in specific projects, our validation  
18 of biomarkers, we are trying to put together a blood  
19 panel to assess sensitivity and specificity, for  
20 peripheral vascular stents, computer models of human  
21 physiology to test and predict failure, and finally,  
22 we are trying to work with the obstetrics community to

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1 develop a clear path in intrapartum fetal diagnostic  
2 devices, and this would principally be a guidance type  
3 effort.

4 Here are a few others, you can read them,  
5 and I can certainly -- I think you already have  
6 somewhere in your package these kind of issues, and we  
7 can talk about them at some length if you'd like.

8 I want to point out the last one, the  
9 neural tissue contracting materials, extensive  
10 neurotoxicity testing, we are doing some of the work  
11 on that, neurolaboratories as well.

12 If you are interested, what are we doing?

13 Well, we are continuing to review comments that were  
14 sent last year to the docket. We are trying to figure  
15 out which areas would most benefit from research in  
16 the development of Critical Path evaluative tools.  
17 Any suggestions you have would be most welcome.  
18 Please direct them directly to Dr. Sousan Altaie, her  
19 name is on the first slide here, and you can find her  
20 in our global directory. I'm sure if you need to we  
21 can provide you her e-mail address, so if you have any  
22 comments or suggestions in the product areas that you

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1 are involved in, please feel free to contact Sousan  
2 directly.

3 We are compiling a National Path Critical  
4 Opportunities List and publish it. While the  
5 resources of FDA are better than they ever have been  
6 under the Medical Device User Fee and Modernization  
7 Act, we are still an extremely leanly funded agency.  
8 I can tell you our laboratory budget, if any of you is  
9 interested at some point, I'll tell you off line, and  
10 it's kind of embarrassing when you think about  
11 comparing it to real science effort. So, we really  
12 need to partner with academic, other government  
13 agencies which we try to do as often as we possibly  
14 can, and the clinical community, to get these Critical  
15 Path tools developed.

16 Here's a web address for you. It's in  
17 your packet I'm sure, and the docket is always open  
18 for suggestions and comments. We review that on a  
19 routine basis, and there's a web page providing links  
20 to the Critical Path White Paper which describes the  
21 original background for this project. We hope that  
22 you'll become engaged, and if you have any questions

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1 or comments you can ask me now or you can ask Sousan  
2 in the future.

3 I want to thank you for your time and  
4 attention. I hope I haven't overstayed my welcome.

5 Thanks.

6 CHAIRMAN SUZUKI: Thank you, Dr. Kessler,  
7 and thank you, Dr. Gross.

8 We will now proceed with the meeting. I  
9 note for the record that voting members present  
10 constitute a quorum for the meeting, as required by 21  
11 CFR, Part 14. We will now proceed with the agenda.

12 The first item on our agenda is the open  
13 public hearing, the first of two open public hearing  
14 sessions for this meeting. A second open public  
15 hearing will be held tomorrow. At these times, public  
16 attendees are given the opportunity to address the  
17 panel to present data or views relevant to the panel's  
18 activities.

19 Please note that there will be  
20 opportunities during the classification discussions to  
21 comment on the proposals for each device.

22 Both the Food and Drug Administration and

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1 the public believe in a transparent process for  
2 information gathering and decision-making. To ensure  
3 such transparency at the open public hearing session  
4 of the Advisory Committee meeting, the FDA believes  
5 that it is important to understand the context of an  
6 individual's presentation. For this reason, FDA  
7 encourages you, the open public hearing speaker, at  
8 the beginning of your written or oral statement to  
9 advise the committee of any financial relationship  
10 that you may have with any company or group that may  
11 be affected by the topic of this meeting. For example,  
12 this financial information may include a company's or  
13 a group's payment of your travel, lodging, or other  
14 expenses in connection with your attendance at the  
15 meeting.

16 Likewise, FDA encourages you at the  
17 beginning of your statement to advise the committee if  
18 you do not have a financial relationship. If you  
19 choose not to address this issue of financial  
20 relationships at the beginning of your statement, it  
21 will not preclude you from speaking.

22 I would like to remind public observers at

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1 this meeting that while this portion of the meeting is  
2 open to public observation, public attendees may not  
3 participate except at the specific request of the  
4 Chair. You will be given no more than ten minutes for  
5 your presentation.

6 No individual has given advanced notice of  
7 wishing to address this panel. If there is anyone now  
8 wishing to address the panel, please identify  
9 yourselves at this time.

10 I would like to ask that persons  
11 addressing the panel come forward at this time,  
12 identify yourself, speak clearly as the  
13 transcriptionist is dependent on this means for  
14 providing an accurate transcription of the proceedings  
15 of this meeting. If you have a hard copy of your talk  
16 available, please provide it to the Executive  
17 Secretary for use by the transcriptionist to help  
18 provide an accurate record of the proceedings.

19 Seeing no one, I'd like to turn the  
20 program over to Dr. Runner.

21 DR. RUNNER: Good morning. I'd like to  
22 welcome members of the Dental Product Panel, our

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1 consultants, FDA staff, and all of our stakeholders in  
2 the audience, to this meeting of the Dental Products  
3 Panel. My name is Susan Runner, and I'm the Branch  
4 Chief of Dental Devices, in the Division of  
5 Anesthesiology, Infection Control, General Hospital,  
6 and Dental Devices, of the Office of Device  
7 Evaluation, of the Center for Devices and Radiological  
8 Health, of the FDA. That's a long introduction, isn't  
9 it?

10 Over the next two days, you are going to  
11 asked for your recommendation on the classification of  
12 seven dental devices that we believe have been on the  
13 market since prior to the initiation of the Medical  
14 Device Amendments of May 28, 1976, and they have never  
15 been classified by previous panels.

16 During the next two days, you'll get to  
17 hear from every single one of my branch members,  
18 beginning with Ms. Myra E. Browne, a biologist, and  
19 she will be giving a presentation on Artificial  
20 Saliva. Then, Dr. Robert Betz on Retraction Cord.  
21 Then, Ms. Angela Blackwell, biomedical engineer in my  
22 branch, on Oral Wound Dressings. Dental Electrical

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1 Anesthesia, by Mr. Andrew Steen, who is a mechanical  
2 engineer. Ms. Myra Browne again on Root Canal  
3 Cleansers. Mr. Michael Ryan, who is a biomedical  
4 engineer, on Root Apex Locators, and finally, Dr.  
5 Kevin Mulry, on the Dental Mouth Guard.

6 Secondly, we will be looking at a general  
7 issue, and we will ask for your input on the OTC use  
8 of dental mouth guards, and that will be presented  
9 tomorrow by Dr. Kevin Mulry.

10 We appreciate your time and welcome your  
11 expertise, and we hope to have a very good meeting. I  
12 think we'll not have the break as per schedule, but  
13 we'll start right out with Ms. Browne's presentation.

14 CHAIRMAN SUZUKI: Next on our agenda is  
15 FDA's presentation on the Proposed Classification of  
16 Artificial Saliva, Ms. Myra Browne.

17 MS. BROWNE: And, I'd like to thank the  
18 panel for coming this morning. This morning we will  
19 be seeking the panel's recommendation to classify  
20 artificial saliva. I will be presenting the proposed  
21 classification of artificial saliva devices. This  
22 presentation includes device identification,

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1 classification issues, and health risk aspects of the  
2 device.

3 This slide outlines the topics I intend to  
4 go through during my presentation. This includes a  
5 description of artificial saliva, a regulatory history  
6 of artificial saliva, any medical device adverse  
7 events submitted, the risk to health associated with  
8 artificial saliva, and FDA's classification proposal  
9 for artificial saliva.

10 Artificial saliva is intended for the  
11 temporary relief of xerostomia, which may result from  
12 an illness, chemotherapy, radiation, stress or aging.

13 It is used to physically replace moisture and  
14 lubricate the mouth.

15 These devices are typically composed of  
16 carboxymethylcellulose, salt, buffers and other  
17 additives. These devices are commonly marketed as  
18 sprays, gels and lozenges, and they are available  
19 either by prescription use or over the counter.

20 These products are used to mimic natural  
21 saliva, but do not stimulate saliva production. These  
22 devices are considered as replacement therapy, rather

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1 than a cure. Artificial saliva devices do not include  
2 products intended to alter salivary flow or to treat  
3 mucositis by chemical or metabolic means. Such  
4 products would be considered drugs.

5 The only pre-amendment device identified  
6 as having been marketed prior to 1976 is Xero-Lube  
7 manufactured by Scherer, Incorporated. Artificial  
8 saliva devices are currently regulated via the pre-  
9 market notification 510(k) process. To date, FDA has  
10 cleared 15 artificial saliva 510(k) to date. There  
11 have been no medical device reports through FDA's  
12 adverse event reporting system for artificial saliva  
13 devices to date.

14 This table identifies the risk to health  
15 associated with artificial saliva and FDA's proposed  
16 controls to address these issues. The risk to health  
17 associated with artificial saliva are improper use and  
18 adverse tissue reaction. Mitigation measures would  
19 include labeling recommendation, full chemical  
20 characterization, and biocompatibility testing.  
21 Chemical characterization is a critical component of  
22 risk mitigation. The inclusion of chemical entities

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1 with adverse chemical and/or pharmacological  
2 properties may pose a serious risk to health.

3 To conclude, FDA is proposing the  
4 following classification for artificial saliva  
5 devices. The identification would read, an artificial  
6 saliva device is intended for the relief of  
7 xerostomia. The classification would read, Class II,  
8 Special Controls. The special control for this device  
9 would be the guidance document, Class II, Special  
10 Controls Guidance Document, Artificial Saliva.

11 Thank you.

12 CHAIRMAN SUZUKI: I would now like to ask  
13 the panel if it has any questions on the presentation.

14 Hearing none, we now have an open comment  
15 session regarding the proposed classification of  
16 artificial saliva. I'd like to ask if there's anyone  
17 in attendance who wishes to address the panel, and if  
18 there are please approach the microphone and identify  
19 yourself for the record.

20 Okay, there are none.

21 Ms. Shulman will now lead the panel to  
22 complete the classification forms.

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1 DR. COCHRAN: Jon?

2 CHAIRMAN SUZUKI: Dr. Cochran?

3 DR. COCHRAN: This is David Cochran. I  
4 have a question.

5 The chemical characterization of the  
6 material is something used to mitigate the risk. Is  
7 that not included if it's a Class I device?

8 CHAIRMAN SUZUKI: I'll ask Ms. Browne to  
9 respond to the question.

10 MS. BROWNE: If it's a Class I device, and  
11 we might not -- well, we would see it, but the risk --  
12 I'm trying to think, if it were Class I --

13 DR. RUNNER: If it were a Class I device,  
14 it would be most likely exempt, and, therefore, we  
15 would not see the chemical characterization of the  
16 device, because that would not be something that would  
17 come in as a 510(k).

18 MS. BROWNE: The exemption would be tripped  
19 unless it were a new product with a totally different  
20 -- not as a composition already on the market, we  
21 would not see that device. And, we feel that the  
22 risk, it should be in Class II.

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1 DR. COCHRAN: But, if there was a different  
2 composition it would be tripped. So you would see it.

3 MS. BROWNE: We would see, it, yes, we  
4 would see the composition of it.

5 DR. COCHRAN: So, I guess the question is,  
6 is the chemical composition of the one that's  
7 available in 1976, is that a safe product at this  
8 point?

9 MS. BROWNE: Yes. Well, we feel it's a  
10 safe product, but over the years they have evolved  
11 where the composition has changed and the devices  
12 work, the mode of actions are slightly different, that  
13 we feel that the Class II would be substantiated.

14 CHAIRMAN SUZUKI: Did that answer your  
15 question, Dr. Cochran?

16 DR. COCHRAN: Yes.

17 CHAIRMAN SUZUKI: Thank you.

18 Any other questions?

19 Yes, Dr. Zero?

20 DR. ZERO: Is there -- some of these  
21 products may contain some fluoride, is that correct?

22 MS. BROWNE: As of now, I don't believe

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1 we've had any with fluoride, but we would -- they  
2 could contain fluoride. They also might be -- well,  
3 fluoride isn't considered a drug, but we do have  
4 several devices that do contain fluoride. However, no  
5 one is allowed to make a claim for the fluoride  
6 content in the device.

7           So, therefore, if it did contain fluoride,  
8 I would ask them what the purpose of the fluoride is,  
9 but I would not let them make any claim to it. So, if  
10 fluoride were an active ingredient, I believe it would  
11 be regulated as a drug, or at least a consult from  
12 drug.

13           DR. ZERO: So, if it had fluoride, would  
14 there be a limit on the level of fluoride? Say, it's  
15 1 ppm, or 10 ppm, or 100 ppm.

16           MS. BROWNE: Yes, I would ask Drugs, I  
17 would not make that call myself, I would ask the  
18 Center for Drugs.

19           DR. ZERO: So, there's a threshold when if  
20 it was high enough it would then be considered as a  
21 drug?

22           MS. BROWNE: I'm not sure, would it be?

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1 DR. RUNNER: Typically, we have products  
2 that have fluoride in them. However, they haven't  
3 been allowed to make claims. If they want specific  
4 claims for the fluoride, then we would consult with  
5 Drugs. For example, if they wanted anti-caries  
6 claims, et cetera, they would need a drug consult  
7 since the fluoride is considered a drug.

8 Limits, we've looked at the limits that  
9 have been typically in some of the products, like  
10 restorative materials, without a drug consult, and we  
11 actually ask for release data on those with fluoride  
12 in them.

13 DR. ZERO: Okay. And, typically, the level  
14 of fluoride is in the ppm range, low, like 1, 10?

15 DR. RUNNER: Low-dose, yes.

16 DR. ZERO: Okay, thank you.

17 CHAIRMAN SUZUKI: Any other questions?

18 Yes, Ms. Howe?

19 MS. HOWE: I'd like to just clarify, if the  
20 intent for this product is the same, then if a  
21 manufacturer changes ingredients what does that trip?  
22 Does that trip a 510(k), a reconsideration, is it

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1 just a change of intent that trips something?

2 MS. BROWNE: Yes, it would still be a  
3 510(k), unless it were -- as long as the intended use  
4 were the same, but it had a different ingredient, it  
5 would still be the same classification, it would just  
6 need a new 510(k). But, if it's in Class II, it will  
7 always -- you will see all of that.

8 CHAIRMAN SUZUKI: Okay, thank you.

9 Dr. Demko?

10 DR. DEMKO: I'm just asking a question, in  
11 that I know that some of them that are on the market  
12 now are actually oil-based, rather than  
13 carboxymethylcellulose, and I have tremendous concerns  
14 about those, vis-á-vis the CPAP, which dries your  
15 mouth, so is that something that I bring up for  
16 discussion now, or do I just write it in my notes, in  
17 my review?

18 MS. BROWNE: No, you should -- you might  
19 want to discuss it now, because we have seen those  
20 products.

21 DR. DEMKO: Okay, because one of the  
22 things that came up, there are two types of positive

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1 air pressure for treating obstructive sleep apnea,  
2 where they are using air pressure to inflate the  
3 airway, that they are oral delivery. They are either  
4 with an OPAP or an Oracle device, where the air is  
5 delivered into the mouth, and the patients who use  
6 this type of oral delivery for CPAP complain  
7 horrendously about dry mouth, even with use of  
8 humidifiers on their CPAP machines.

9 And, the question has come up in the past,  
10 there would be some dentists who would tell patients  
11 to use a fine mist of canola oil or a fine mist of  
12 olive oil, because that way it doesn't evaporate and  
13 it protects the mucosa from the drying effects of the  
14 CPAP.

15 The catch is, the pulmonary docs went  
16 nuts, because there is a certain type of oil embolus  
17 pneumonia that patients can get if you actually blow  
18 this oil into the lungs. So, I would want to see this  
19 looked at by a pulmonary physician, as to what their  
20 concerns would be with use of a CPAP.

21 MS. BROWNE: Well, is the oil, is the mist,  
22 is it actually, you know, labeled as an artificial

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1 saliva device, or are they just taking oil and  
2 spraying it down their throat?

3 DR. DEMKO: When it started out with the  
4 OPAP back about eight years ago, they were just being  
5 told to use oil. So, but knowing that patients tend  
6 to treat themselves, and they are going to try and  
7 find an artificial saliva that's going to make their  
8 mucosa more comfortable with oral delivery, say if  
9 they have chronic nasal congestion, that whether that  
10 be labeled out saying, do not use this if you are  
11 using CPAP, because I'm not sure how much of what is  
12 instilled into the mouth actually gets into the  
13 airway.

14 MS. BROWNE: Okay, well, that's another  
15 reason that you need to keep it into Class II,  
16 otherwise, if one has it on the market, and you put it  
17 in Class I, the next one with the identical  
18 formulation I won't have any control over the  
19 labeling.

20 So, if you don't put it in Class II, I  
21 won't have any control over the labeling at all, and I  
22 don't believe I've seen labeling for the specifics of

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1 what you were talking about.

2 CHAIRMAN SUZUKI: Did that answer your  
3 question, Dr. Demko?

4 DR. DEMKO: Yes.

5 CHAIRMAN SUZUKI: Any other questions from  
6 the panel?

7 Okay, thank you, Ms. Browne.

8 Ms. Shulman?

9 MS. SHULMAN: Good morning. Again, each  
10 panel member will fill out their own form, the panel  
11 chair will take the vote after we go through each  
12 question.

13 So, on the top of the form the panel  
14 member and the date, and the generic type of device.  
15 We'll go through the very first question, is the  
16 device life-sustaining or life-supporting? I don't  
17 know if you want to just go around and take a vote,  
18 however you'd like to do it.

19 CHAIRMAN SUZUKI: I'll ask the voting  
20 members in order, and I'll begin with Dr. Cochran?

21 DR. COCHRAN: No.

22 CHAIRMAN SUZUKI: And, Dr. O'Brien?

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1 DR. O'BRIEN: No.

2 CHAIRMAN SUZUKI: Dr. Zero?

3 DR. ZERO: No.

4 CHAIRMAN SUZUKI: Dr. Zuniga?

5 DR. ZUNIGA: No.

6 CHAIRMAN SUZUKI: And, the Chair votes no.

7 And, the non-voting members would like to  
8 comment, Ms. Elizabeth Howe?

9 MS. HOWE: I would say no.

10 CHAIRMAN SUZUKI: And, Mr. Daniel  
11 Schechter?

12 MR. SCHECHTER: No.

13 CHAIRMAN SUZUKI: Okay.

14 MS. BROWNE: Thank you.

15 Question number two, is the device for use  
16 which is of substantial important in preventing  
17 impairment of human health?

18 Again, if you'd like to go around.

19 CHAIRMAN SUZUKI: Yeah, I'll go around.

20 Dr. Cochran?

21 DR. COCHRAN: No.

22 CHAIRMAN SUZUKI: Dr. O'Brien?

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1 DR. O'BRIEN: No.

2 CHAIRMAN SUZUKI: Dr. Zero?

3 DR. ZERO: No.

4 CHAIRMAN SUZUKI: Doctor Zuniga?

5 DR. ZUNIGA: No.

6 CHAIRMAN SUZUKI: And, I neglected the  
7 consultants on that last table of questions.

8 Dr. Bakland? So, you can answer twice,  
9 the previous question and this question.

10 DR. BAKLAND: No to both.

11 CHAIRMAN SUZUKI: And, Dr. Demko?

12 DR. DEMKO: No to both.

13 CHAIRMAN SUZUKI: And then, our non-voting  
14 consumer and industry representatives for their  
15 opinions.

16 Ms. Howe?

17 MS. HOWE: No.

18 CHAIRMAN SUZUKI: And, Mr. Schechter?

19 MR. SCHECHTER: No.

20 CHAIRMAN SUZUKI: Okay.

21 MS. BROWNE: Okay, thank you.

22 Question number three, does the device

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1 present a potential unreasonable risk of illness or  
2 injury?

3 CHAIRMAN SUZUKI: Dr. Cochran?

4 DR. COCHRAN: No.

5 CHAIRMAN SUZUKI: Dr. O'Brien?

6 DR. O'BRIEN: No.

7 CHAIRMAN SUZUKI: Dr. Zero?

8 DR. ZERO: No.

9 CHAIRMAN SUZUKI: Doctor Zuniga?

10 DR. ZUNIGA: No.

11 CHAIRMAN SUZUKI: Non-voting members.

12 Ms. Howe?

13 MS. HOWE: No.

14 CHAIRMAN SUZUKI: Mr. Schechter?

15 MR. SCHECHTER: No.

16 CHAIRMAN SUZUKI: Consultants.

17 Dr. Bakland?

18 DR. BAKLAND: No.

19 CHAIRMAN SUZUKI: Dr. Demko?

20 DR. DEMKO: And, I would say no, except  
21 with the oils and question talking to a pulmonary  
22 specialist.

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1 CHAIRMAN SUZUKI: Okay.

2 And, the Chair votes no.

3 MS. BROWNE: Thank you.

4 Number four, did you answer yes to any of  
5 the above three questions? The answer to that is no,  
6 so we go to question five.

7 Is there sufficient information to  
8 determine that general controls are sufficient to  
9 provide reasonable assurance of safety and  
10 effectiveness? Remember the general controls are the  
11 Class I controls.

12 CHAIRMAN SUZUKI: Okay.

13 Dr. Cochran?

14 DR. COCHRAN: The answer is no.

15 CHAIRMAN SUZUKI: Dr. O'Brien?

16 DR. O'BRIEN: No.

17 CHAIRMAN SUZUKI: Dr. Zero?

18 DR. ZERO: No.

19 CHAIRMAN SUZUKI: Dr. Zuniga?

20 DR. ZUNIGA: No.

21 CHAIRMAN SUZUKI: The Chair votes no.

22 The consumer and industry reps.

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1 Ms. Howe?

2 MS. HOWE: No.

3 CHAIRMAN SUZUKI: Mr. Schechter?

4 MR. SCHECHTER: No.

5 CHAIRMAN SUZUKI: And, the consultants for  
6 their opinions.

7 Dr. Bakland?

8 DR. BAKLAND: No.

9 CHAIRMAN SUZUKI: And, Dr. Demko?

10 DR. DEMKO: No.

11 MS. BROWNE: Okay, thank you.

12 Then if no, we go to question six. Is  
13 there sufficient information to establish special  
14 controls in addition to the general controls, to  
15 provide reasonable assurance of safety and  
16 effectiveness? The special controls are the Class II  
17 controls.

18 CHAIRMAN SUZUKI: Okay.

19 Dr. Cochran?

20 DR. COCHRAN: Yes.

21 CHAIRMAN SUZUKI: Dr. O'Brien?

22 DR. O'BRIEN: Yes.

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1 CHAIRMAN SUZUKI: Dr. Zero?

2 DR. ZERO: Yes.

3 CHAIRMAN SUZUKI: Dr. Zuniga?

4 DR. ZUNIGA: Yes.

5 CHAIRMAN SUZUKI: The Chair votes yes.

6 Ms. Howe?

7 MS. HOWE: Yes.

8 CHAIRMAN SUZUKI: Mr. Schechter?

9 MR. SCHECHTER: Yes.

10 CHAIRMAN SUZUKI: Consultants.

11 Dr. Bakland?

12 DR. BAKLAND: Yes.

13 CHAIRMAN SUZUKI: Dr. Demko?

14 DR. DEMKO: Yes.

15 MS. BROWNE: Okay, thank you.

16 If yes, classify in Class II, and we move  
17 on to Item seven. Item seven, if there is sufficient  
18 information to establish the special controls to  
19 provide reasonable assurance of safety and  
20 effectiveness, identify below the special controls  
21 needed to provide such reasonable assurance for Class  
22 II. And, what Ms. Browne talked about was the guidance

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1 document with the first one, but you can also  
2 recommend anything else listed or any other that you  
3 would like to list as a special control.

4 CHAIRMAN SUZUKI: Okay.

5 So, Ms. Browne indicated primarily the  
6 guidance document.

7 DR. COCHRAN: I have a question.

8 CHAIRMAN SUZUKI: Okay, Dr. Cochran has a  
9 question.

10 DR. COCHRAN: The question, could you go  
11 over again what testing guidelines is?

12 MS. BROWNE: That would be testing  
13 guidelines will be included usually in the guidance  
14 document, what kind of test we are looking for, or  
15 what kind of results we are looking for, anything like  
16 that.

17 DR. COCHRAN: So, that's included in a  
18 guidance document?

19 MS. BROWNE: Most of the time if testing is  
20 required to determine substantial equivalence, that  
21 will be included in the guidance document.

22 CHAIRMAN SUZUKI: Okay, are we ready to

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1 vote?

2 Dr. Cochran?

3 DR. COCHRAN: Guidance document checked on  
4 number seven.

5 CHAIRMAN SUZUKI: Okay.

6 Dr. O'Brien?

7 DR. O'BRIEN: Guidance document.

8 CHAIRMAN SUZUKI: Dr. Zero?

9 DR. ZERO: Guidance document.

10 CHAIRMAN SUZUKI: Dr. Zuniga?

11 DR. ZUNIGA: Guidance document.

12 CHAIRMAN SUZUKI: And, I report the same,  
13 guidance document.

14 The consumer and industry representatives.

15 Ms. Howe?

16 MS. HOWE: Guidance document.

17 CHAIRMAN SUZUKI: Mr. Schechter?

18 MR. SCHECHTER: Guidance document.

19 CHAIRMAN SUZUKI: And, the consultants for  
20 their opinions.

21 Dr. Bakland?

22 DR. BAKLAND: Guidance document.

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1 CHAIRMAN SUZUKI: And, Dr. Demko?

2 DR. DEMKO: Guidance document.

3 MS. BROWNE: Okay, thank you.

4 Questions eight and nine we can skip,  
5 because it only has to do with performance standards,  
6 and performance standard is not one of the special  
7 controls chosen.

8 Question ten we can skip, because that  
9 only has to do if there it was recommended to go into  
10 Class III.

11 Question 11, this is also for your current  
12 thoughts, but this was a pre-amendment prescription  
13 device, so we are identifying the needed restrictions.

14 The first one is a prescription statement, only upon  
15 the written or oral authorization of a practitioner  
16 licensed by law to administer the device, or you can  
17 add onto that, for use only by persons with specific  
18 training or experience in its use, or only in use in  
19 certain facilities.

20 CHAIRMAN SUZUKI: Okay, are there any  
21 questions before we proceed with the vote?

22 Mr. Schechter?

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1 MR. SCHECHTER: Yes. I believe that it was  
2 mentioned that there are currently prescription and  
3 over-the-counter devices in this category.

4 MS. BROWNE: They did.

5 MR. SCHECHTER: So, I assume that would be  
6 the intention to continue that way?

7 MS. BROWNE: That's fine.

8 MR. SCHECHTER: Okay.

9 CHAIRMAN SUZUKI: Dr. O'Brien?

10 DR. O'BRIEN: Yes, I had a similar  
11 question. There are over-the-counter products  
12 available. Is there an option in 11 for over-the-  
13 counter items, because they seem to indicate that they  
14 would be prescription items, because it says, written  
15 or oral authorization.

16 MS. SHULMAN: Right. Under the other you  
17 can write down also over the counter, so it wouldn't  
18 be a needed restriction, but we would have the  
19 comments that it could either be prescription or over  
20 the counter.

21 DR. O'BRIEN: Okay.

22 CHAIRMAN SUZUKI: Okay, was that clear?

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1 DR. COCHRAN: So, was that the first box  
2 and the last box?

3 MS. SHULMAN: The first box and the last  
4 box you can write the other for the over the counter.

5 CHAIRMAN SUZUKI: So, by the first box that  
6 would include the OTC and the prescription?

7 MS. SHULMAN: Right, for the other we are  
8 going to say that it's also available over the  
9 counter. This is one of the kind of weird situations  
10 where it's both prescription and over the counter.

11 CHAIRMAN SUZUKI: It's both, okay.

12 Are we ready to proceed with the votes?

13 Dr. Zero?

14 DR. ZERO: Is there a specific need to  
15 maintain the prescription status in this product  
16 classification?

17 MS. SHULMAN: I'll let the experts answer.

18 MS. BROWNE: The ones that I have that are  
19 on the market originally were OTC, but companies  
20 actually made a request for some of these to be sold  
21 by prescription use, and one company has both uses.

22 So, they've asked for both, and we allow

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1       them to do it simultaneously, we give approval to both  
2       ways.

3                   DR. ZERO: But again, the question was, is  
4       there a need for --

5                   MS. BROWNE: For a prescription?

6                   DR. ZERO: From a regulatory point of view.

7                   MS. BROWNE: No, but if a company wants to  
8       do it by prescription that's their prerogative.

9                   DR. ZERO: Thank you.

10                   DR. ZUNIGA: I have a question.

11                   CHAIRMAN SUZUKI: Okay, Dr. Zuniga  
12       speaking.

13                   DR. ZUNIGA: Along the same line, would  
14       that allow the company that currently is this approval  
15       on, and that company that currently allows or requires  
16       a prescription, to then go to OTC?

17                   MS. BROWNE: They can have it  
18       simultaneously. It doesn't matter. They can be both  
19       at the same time . We allow that, and actually we have  
20       one artificial saliva product on the market that did  
21       ask for both at the same time.

22                   CHAIRMAN SUZUKI: Okay, other comments or

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1 questions?

2 If not, we'll proceed with a vote,  
3 beginning with Dr. Cochran.

4 DR. COCHRAN: I'd vote to check both the  
5 first and last box.

6 CHAIRMAN SUZUKI: Okay.

7 Dr. O'Brien?

8 DR. O'BRIEN: First and last box, and the  
9 comment also, over the counter.

10 CHAIRMAN SUZUKI: And, can you specify the  
11 comment under other?

12 DR. O'BRIEN: Under other, yes.

13 CHAIRMAN SUZUKI: And, under the comments,  
14 maybe Dr. Cochran would like to respond?

15 DR. COCHRAN: Yes, I would include over the  
16 counter.

17 CHAIRMAN SUZUKI: OTC.

18 Okay, do you agree, Dr. O'Brien?

19 DR. O'BRIEN: Yes.

20 CHAIRMAN SUZUKI: Okay.

21 Dr. Zero?

22 DR. ZERO: The first and last box, with the

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1 specific comment also, over the counter.

2 CHAIRMAN SUZUKI: Okay.

3 Dr. Zuniga?

4 DR. ZUNIGA: The first and last box, with  
5 the specific comment under other, allow over the  
6 counter.

7 CHAIRMAN SUZUKI: I respond first and last  
8 box, to including OTC for other.

9 The consumer and industry representatives.

10 Ms. Howe?

11 MS. HOWE: The first box and the  
12 description in over that it's over the counter.

13 CHAIRMAN SUZUKI: Okay.

14 Mr. Schechter?

15 MR. SCHECHTER: By prescription and other  
16 available OTC.

17 CHAIRMAN SUZUKI: Okay.

18 And, our consultants.

19 Dr. Bakland?

20 DR. BAKLAND: The first box, and the fourth  
21 box, other, OTC.

22 CHAIRMAN SUZUKI: Okay.

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1 And, Dr. Demko?

2 DR. DEMKO: The first box and the last box,  
3 with the comment of allowing over-the-counter use.

4 MS. SHULMAN: Okay, thank you.

5 If we could move on to the supplemental  
6 data sheet. Again, question one, the generic type of  
7 device.

8 Question two, the Advisory Panel, Dental.

9 EXECUTIVE SECRETARY ADJODHA: Margie, can  
10 you specify what they mean by generic type of device?

11 MS. SHULMAN: Just the artificial saliva,  
12 that's generic.

13 DR. ZERO: And, you want Advisory Panel  
14 member as opposed to --

15 MS. SHULMAN: We would like your names on  
16 the sheets also, so you can put Dental and then your  
17 name, please.

18 And, question three we can fill out, is  
19 this device an implant, yes or no.

20 Question four, the indications for use in  
21 the device labeling, we can say, as presented, or you  
22 can comment on the indication for use that was

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1 presented by Ms. Browne. Do you need a full back-up  
2 or anything?

3 So, if you want you can go around and  
4 discuss if there's any changes or any comments you'd  
5 like to make to that, or just as presented.

6 CHAIRMAN SUZUKI: This really designates  
7 the prescription, correct?

8 MS. SHULMAN: The prescription, no, no,  
9 that's just the identification of the device and the  
10 classification into Class II, but it does not address  
11 prescription or over the counter.

12 CHAIRMAN SUZUKI: Okay.

13 MS. SHULMAN: If everyone agrees, is there  
14 anyone who does not agree to that? Are there any  
15 comments?

16 Okay, thank you.

17 Then the identification of the risks to  
18 health presented by the device.

19 EXECUTIVE SECRETARY ADJODHA: Margie, are  
20 we going to vote on that one?

21 CHAIRMAN SUZUKI: Do we necessarily have to  
22 vote on each?

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1 MS. SHULMAN: No, at the end we can vote on  
2 the sheet.

3 CHAIRMAN SUZUKI: Okay.

4 The identifications of the risks that were  
5 presented, was there any comments or additions to any  
6 of those? Do you want to back up?

7 CHAIRMAN SUZUKI: Would anyone like to  
8 comment, were there any additional risks?

9 DR. ZERO: Mr. Chairman?

10 Dr. Zero?

11 DR. ZERO: Based on the comment made about  
12 the lipids, do we need to have any specific additional  
13 wording?

14 MS. SHULMAN: You can certainly write that  
15 down, that is another concern. That could be  
16 addressed maybe in the labeling.

17 DR. O'BRIEN: Now, in filling out the form,  
18 do we put the identified risks as given?

19 MS. SHULMAN: You do not need -- yes, you  
20 can say, as presented in the Panel meeting, you do not  
21 have to rewrite those.

22 DR. O'BRIEN: Okay.

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1 MS. SHULMAN: Okay.

2 The next question is the classification  
3 which was recommended in the Class II, then you will  
4 vote on the priority for high, medium or low, and then  
5 as to how fast or quickly you would like us to go back  
6 and write the proposed rule and the final  
7 classification. It's usually a high, medium or low.  
8 There are no time frames associated with the high,  
9 medium or low. So, if you just want to go around and  
10 let us know if you consider it high, medium or low.

11 CHAIRMAN SUZUKI: Would you like us to go  
12 around regarding classification also, or just high,  
13 medium or low?

14 MS. SHULMAN: Just high, medium or low.

15 CHAIRMAN SUZUKI: Okay.

16 I'll begin with Dr. Cochran again.

17 DR. COCHRAN: Low.

18 CHAIRMAN SUZUKI: Okay.

19 Dr. O'Brien?

20 DR. O'BRIEN: Low.

21 CHAIRMAN SUZUKI: Dr. Zero?

22 DR. ZERO: Low.

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1 CHAIRMAN SUZUKI: Dr. Zuniga?

2 DR. ZUNIGA: Low.

3 CHAIRMAN SUZUKI: The Chair also indicates  
4 low.

5 Ms. Howe?

6 MS. HOWE: My interpretation would be high,  
7 and my justification for that is, even though it's out  
8 there on the market, and maybe for that reason it  
9 should be low, I guess I'm thinking in terms of if  
10 there are manufacturers out there who want this  
11 information so they can go ahead and get more products  
12 on the market, this is something that several  
13 consumers use in terms of people who are receiving  
14 chemotherapy, whatever. That's how I would interpret  
15 it, that we want people to know that this is a product  
16 that we really want to have out there as classified  
17 and available.

18 CHAIRMAN SUZUKI: Okay, thank you, Ms.  
19 Howe.

20 Mr. Schechter?

21 MR. SCHECHTER: Low.

22 CHAIRMAN SUZUKI: Okay.

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1 The consultants.

2 Dr. Bakland?

3 DR. BAKLAND: Low.

4 CHAIRMAN SUZUKI: Dr. Demko?

5 DR. DEMKO: Low.

6 MS. SHULMAN: Okay, thank you. So, that  
7 will be low.

8 The question seven, we may skip because  
9 it's not an implant, or life sustaining, or life  
10 supporting, that was voted on on the first sheet.

11 Number eight, the summary of information,  
12 including clinical experience with judgment upon which  
13 the classification recommendation was based. You may  
14 also say the information as presented in the Panel  
15 meeting, or, of course, add anything else you wanted  
16 to say.

17 Question 11, is any other needed  
18 restrictions besides the prescription use statement or  
19 it can be over the counter, are there any other needed  
20 restrictions on the device as known? If not, you may  
21 say none, or any comments.

22 CHAIRMAN SUZUKI: Any comments? Any

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1 questions?

2 Okay, none for number nine.

3 MS. SHULMAN: On the next sheet, we may  
4 skip question ten, because that only has to do with  
5 Class I devices.

6 Question 11, if the device is recommended  
7 for Class II, recommend whether FDA should exempt it  
8 from pre-market notification. We need to vote on  
9 that.

10 CHAIRMAN SUZUKI: Okay. Any questions  
11 first before we vote?

12 Okay, I'll ask Dr. Cochran.

13 DR. COCHRAN: Exempt.

14 CHAIRMAN SUZUKI: Okay.

15 Dr. O'Brien?

16 DR. O'BRIEN: Not exempt.

17 CHAIRMAN SUZUKI: Dr. Zero?

18 DR. ZERO: I might need a clarification  
19 here, since -- so we can have it as a Class II device,  
20 but have it exempt from --

21 MS. SHULMAN: Pre-market notification, so a  
22 company would not be required to submit a 510(k).

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1 DR. ZERO: Exempt.

2 CHAIRMAN SUZUKI: Dr. Zuniga?

3 DR. ZUNIGA: Not exempt.

4 CHAIRMAN SUZUKI: And, I indicate not  
5 exempt.

6 DR. COCHRAN: Jon, I'm going to change my  
7 vote to not exempt.

8 CHAIRMAN SUZUKI: Okay, then summarizing  
9 the vote it's 4:1, is that correct?

10 MS. SHULMAN: Correct.

11 CHAIRMAN SUZUKI: Consumer and industry  
12 representatives.

13 Ms. Howe?

14 MS. HOWE: Exempt.

15 CHAIRMAN SUZUKI: Mr. Schechter?

16 MR. SCHECHTER: Exempt.

17 CHAIRMAN SUZUKI: Dr. Bakland?

18 DR. BAKLAND: Not exempt.

19 CHAIRMAN SUZUKI: Dr. Demko?

20 DR. DEMKO: Not exempt.

21 CHAIRMAN SUZUKI: So, the vote is 4:1 in  
22 favor of not exempt.

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1 MS. SHULMAN: Thank you.

2 Number 12, if you know if any existing  
3 standards that would apply to the device sub-  
4 assemblies, components, device materials, you can list  
5 them at this time. If not, we can just write none.  
6 Right, there are two in the presentation besides the  
7 two listed in the presentation.

8 CHAIRMAN SUZUKI: Does the Panel have any  
9 questions regarding the existing standards?

10 None.

11 MS. SHULMAN: Thank you.

12 Now you will vote on the two forms as  
13 filled out as a Class II device with that  
14 identification requiring pre-market notification, and  
15 you will vote to approve those forms or not.

16 CHAIRMAN SUZUKI: Okay. We'll go around  
17 and we'll vote on the entire submission presentation.

18 Dr. Cochran?

19 DR. COCHRAN: Approve.

20 CHAIRMAN SUZUKI: Dr. O'Brien?

21 DR. O'BRIEN: Approve.

22 CHAIRMAN SUZUKI: Dr. Zero?

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1 DR. ZERO: Approve.

2 CHAIRMAN SUZUKI: Dr. Zuniga?

3 DR. ZUNIGA: Approve.

4 CHAIRMAN SUZUKI: The Chair votes approve.

5 Consumer and industry representatives.

6 Ms. Howe?

7 MS. HOWE: Approve.

8 CHAIRMAN SUZUKI: Mr. Schechter?

9 MR. SCHECHTER: Approve.

10 CHAIRMAN SUZUKI: Consultants.

11 Dr. Bakland?

12 DR. BAKLAND: Approve.

13 CHAIRMAN SUZUKI: Dr. Demko?

14 DR. DEMKO: Approve.

15 CHAIRMAN SUZUKI: Okay. Note for the  
16 record that this was unanimous.

17 MS. SHULMAN: Thank you very much, and now  
18 we will collect the forms from this classification.

19 DR. ZERO: Excuse me.

20 We should go back on the first form and  
21 write in the classification recommendation?

22 MS. SHULMAN: Yes, please, on general

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1 device classification questionnaire, the  
2 classification recommendation is Class II.

3 CHAIRMAN SUZUKI: So, the indication is,  
4 under classification recommendation, II, non-exempt.

5 MS. SHULMAN: Thank you.

6 CHAIRMAN SUZUKI: Okay, the Chair would  
7 like to call for a 15 minute break.

8 (Whereupon, at 10:30 a.m., a recess until  
9 10:45 a.m.)

10 CHAIRMAN SUZUKI: Next on our agenda is  
11 FDA's presentation of the proposed classification of  
12 Retraction Cords, and I would like to ask Dr. Robert  
13 Betz, Dental Officer for the FDA presentation on  
14 Retraction Cord.

15 DR. BETZ: I was supposed to speak this  
16 afternoon, but I'm going to say good morning. My name  
17 is Dr. Robert Betz, I'm here to present the gingival  
18 retraction cord for your consideration.

19 My presentation will include the device  
20 description, an intended use, and two indications for  
21 use, one medical device report of an adverse event, a  
22 table of risks and mitigations for those risks, and

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1 FDA's proposed classification for this product.

2           Gingival retraction cords are composed of  
3 single or multiple strands of cotton or cotton  
4 polyester fibers. They are available in various  
5 diameters and may be twisted, braided or knitted.  
6 Retraction cords are inserted into the gingival sulcus  
7 around teeth with subgingival tooth preparation  
8 margins. They are left in place for several minutes  
9 and are removed immediately before placement of dental  
10 impression materials.

11           The purpose of the cords is to press  
12 outward on free marginal gingival tissues, pre-  
13 creating space, permitting dental impression materials  
14 to flow around tooth margins and accurately capture  
15 them in the dental impression.

16           Most retraction cords available prior to  
17 1976 contained no drug component or were impregnated  
18 with epinephrine as the hemostatic agent. Aluminum  
19 chloride was initially substituted for epinephrine  
20 because of adverse events related to epinephrine's  
21 effects on the cardiovascular system.

22           Other hemostatic drug components presently

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1 on the market include, but are not limited to, ferric  
2 sulfate and zinc phenosulfate. I take that back, that  
3 was -- yeah, ferric sulfate, okay.

4           Gingival retraction cords with or without  
5 drug components are intended to be used as an aid in  
6 the taking of dental impressions, to assure capture of  
7 subgingival preparation margins.

8           Although there is only one intended use,  
9 two indications for use have been identified. Number  
10 one, plain retraction cords are indicated for use in  
11 sites where there's no gingival bleeding. In  
12 addition, plain gingival retraction cords are  
13 indicated for use for patients who have a medical  
14 contraindication to one of the drug components  
15 available with the cords. Number two, gingival  
16 retraction cords with a drug component are indicated  
17 for use in sites where there is gingival bleeding  
18 present.

19           A recent search of the medical device  
20 report database revealed only one adverse event, and I  
21 was surprised about this because I'm sure there are  
22 more than one, but only one was reported to us. This

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1 report was related to a patient reaction to  
2 epinephrine in a gingival retraction cord. The  
3 patient was discharged from a trauma center after  
4 three hours of testing and monitoring, no active  
5 treatment was required.

6 Risks to health include adverse tissue  
7 reactions caused by the retraction cord material  
8 itself and adverse reactions to the drug component.  
9 Retraction cord fibers may be embedded in circular  
10 sulcular tissues, causing a foreign body reaction. It  
11 is also possible that a patient may be allergic to one  
12 of the cord components itself.

13 There are also drug reactions possible  
14 that may include allergic reactions to the drug  
15 component and adverse cardiovascular events. There is  
16 also a possibility of interactions with other  
17 medications that the patient may be taking.

18 Improper use may result in damage to the  
19 dental gingival attachment, resulting in deepening of  
20 the gingival crevice or sulcus, and/or recession of  
21 the gingival margin. There is also a very remote risk  
22 of inhaling a piece of retraction cord into the lung.

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1 Swallowing a piece of cord does not appear to pose a  
2 significant safety issue.

3 Measures that may be used to mitigate  
4 these risks include device labeling, biocompatibility  
5 testing, appropriate material specifications, and a  
6 placement of a prescription only warning on the device  
7 label.

8 Consultative reviews have been requested  
9 from the Center for Drug Evaluation and Research in  
10 the past. It is proposed that CDER continue to review  
11 any drug components present in this device.

12 Proper device labeling and the limitation  
13 of use of this device, to use by appropriate  
14 healthcare professionals only, may facilitate the  
15 exercise of due diligence and care in the placement of  
16 these devices.

17 FDA is proposing a two-tier classification  
18 for this device, one for retraction cords with a drug,  
19 and one for those without. There are safety issues  
20 related to the presence of the drug component. Review  
21 of these drug components by the Center for Drugs is  
22 necessary to assure, or at least we feel that it's

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1 necessary, to assure that the device is safe for use  
2 in patient populations.

3           The proposed identification for the  
4 gingival retraction cord device without a drug  
5 component is as follows. Identification, a gingival  
6 retraction cord without a drug component is a single  
7 or multiple stranded cord that is not impregnated with  
8 drug components. Gingival retraction cords without a  
9 drug component are intended to be used as an aid in  
10 taking accurate dental impressions of the margins and  
11 tooth preparations by displacing unattached gingival  
12 tissues adjacent to the margins of those tooth  
13 preparations.

14           FDA is proposing that retraction cords  
15 that have no added drug component be placed in Class  
16 I, with general controls. We also propose that the  
17 devices be exempted from requirements for the  
18 submission of a pre-market notification or 510(k).

19           The identification for a gingival  
20 retraction cord with a drug component is as follows.  
21 Identification, a gingival retraction cord with a drug  
22 component is a single strand or multiple stranded cord

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1 that is impregnated with drug components. Gingival  
2 retraction cords with a drug component are intended to  
3 be used as an aid in taking accurate dental  
4 impressions of subgingival margins of tooth  
5 preparations by displacing unattached gingival tissues  
6 and minimizing bleeding that may interfere with the  
7 impression process.

8 When a drug component is present, FDA is  
9 proposing that the retraction cord be regulated as a  
10 Class II device, and be subject to pre-market  
11 notification procedures. We also propose that a  
12 guidance document serve as one of the special controls  
13 for this device. This guidance document will assist  
14 device manufacturers in the submission of data and  
15 information required or necessary for pre-market  
16 notification or 510(k).

17 Thank you.

18 Any questions?

19 CHAIRMAN SUZUKI: Thank you, Dr. Betz.

20 I'd like to ask the Panel if they have any  
21 questions for Dr. Betz.

22 Dr. Bakland?

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1 DR. BAKLAND: When the device is not  
2 classified, is there a regular procedure for reporting  
3 adverse reactions to that?

4 DR. BETZ: It's my understanding that FDA  
5 accepts medical device reports for all devices,  
6 whether they are regulated, classified or not.

7 CHAIRMAN SUZUKI: Dr. Zuniga?

8 DR. ZUNIGA: Under the other drug  
9 components, can you give us an idea of the range of  
10 what other meant?

11 DR. BETZ: There may be one or two more. I  
12 searched and I could find those two. There are --  
13 there's at least one other that I'm aware of, that  
14 with my wonderful memory it's slipped my memory, but  
15 there may be more, one, maybe two at the most.

16 CHAIRMAN SUZUKI: Okay.

17 Other questions?

18 Okay, we now have an open comment session  
19 concerning the proposed classification of the  
20 retraction cord device. In addition to the two  
21 already indicated wishing to speak, I'd like to ask if  
22 there's anyone else in attendance who wishes to

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1 address the Panel.

2 First, I'd like to call Mr. Henry  
3 Vogelstein for Coltene/Whaledent to address the Panel.

4 MR. VOGELSTEIN: Good morning. I'm Henry  
5 Vogelstein. After having been employed by  
6 Coltene/Whaledent for 33 years, I am now a consultant  
7 to that company, and I receive a fee for my  
8 consultancy, and my expenses for this occasion will be  
9 fully paid by Coltene/Whaledent.

10 Good morning. Thank you very much for  
11 allowing me to address this panel. We welcome this. I  
12 really don't have very much to say, because the FDA  
13 presentation answered my prayer. We agree with what  
14 has been said.

15 I do want to point out, though, that the  
16 MDR report, the one MDR report that is on record, I  
17 believe that there are many more out there that have  
18 not been reported, because generally if an epinephrine  
19 occurrence takes place in a dentist's office, to me it  
20 seems an indication as though the dentist really  
21 didn't do his job in taking down the problematical  
22 history of the patient, and that may frequently result

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1 in an epinephrine adverse event.

2 So, thank you very much. I appreciate  
3 this opportunity.

4 CHAIRMAN SUZUKI: Okay.

5 Does the Panel have any questions for Mr.  
6 Vogelstein?

7 Thank you, Mr. Vogelstein.

8 Our next open comment is by Mr. David  
9 Watton, Pascal Company.

10 MR. WATTON: Good morning. I'm the  
11 President of Pascal Company, and I think you've all  
12 read the letter I wrote earlier.

13 I guess my issue is with this, is whether  
14 all retraction materials will be covered by this or  
15 only the cords. There are a number of other products  
16 that are used, such as dentists will be familiar with  
17 Expositil, which has aluminum sulfate in it, and it is  
18 used, basically, in the same fashion as cords. But, I  
19 see no real mention of that particular product in this  
20 classification. So, that might be something that the  
21 board wants to consider.

22 The other issues are the fact that there

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1 are really three different types of products when you  
2 are talking about retraction cord. You have the plain  
3 cord, which is purely mechanical displacement, you  
4 have the ones that have hemostatic qualities, like --  
5 the other one drug item is aluminum sulfate that is  
6 commonly used -- those products, as I say, within  
7 Europe are still classified as Class I devices, mainly  
8 because their effect is not systemic at all, which is  
9 physical displacement.

10 Then you have the epinephrine cords, which  
11 are systemic in the way they work. It would seem to  
12 me that rather than treat them all as the same, it  
13 would make more sense to make a distinction between  
14 the three types, rather than just say, oh, they are  
15 the same. Obviously, you are running more of a risk  
16 with epinephrine.

17 But, the other thing I might point out is,  
18 most of the plain cords are usually soaked by the  
19 dentist in some material elsewhere, which is  
20 uncontrolled. The dentist can merely put it in  
21 Hemodent or any other such product, which is an  
22 aluminum chloride product, and they have no idea how

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1 much they are placing on the cord before they apply  
2 it.

3 So, in a way, retraction cords that have a  
4 specific medicament are safer than the uncontrolled  
5 use of plain cords, so there are a number of issues I  
6 think that need to be addressed with this, beyond just  
7 looking at retraction cords in isolation, all the  
8 methods of retraction should be probably reviewed for  
9 classifications thereof.

10 Thank you.

11 CHAIRMAN SUZUKI: Okay, thank you, Mr.  
12 Watton.

13 Does the Panel have any questions for Mr.  
14 Watton?

15 Yes, Dr. O'Brien?

16 DR. O'BRIEN: Yes. The FDA has proposed  
17 two classifications, the one the plain retraction  
18 cords, not containing medicaments, but then a second  
19 one. But now, you are proposing three.

20 MR. WATTON: Not really. I just -- as I  
21 say, within Europe they classify all the ones with  
22 just plain hemostatic materials as Class I as well.

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1 Whether then just having the two tier with plain  
2 cords, and then all medicaments.

3 So, all I'm asking is really that one  
4 needs to bear in mind the distinctions thereof.

5 CHAIRMAN SUZUKI: Do you go along with the  
6 proposed -- the FDA proposal for two, Types I and II?

7 MR. WATTON: Yes, I do.

8 CHAIRMAN SUZUKI: All right.

9 Dr. Bakland?

10 DR. BAKLAND: The first material that you  
11 mentioned, I'm not personally familiar with, could you  
12 describe that? I thought I heard you say there's a  
13 material for retraction without cords?

14 MR. WATTON: That is correct, Expositil is a  
15 product that is, I guess, a clay-based material.  
16 There's some other new materials that are out there as  
17 well, that are for exactly the same purpose, but they  
18 are not strictly speaking retraction cords, especially  
19 by the definition thereof. And yet, that has not been  
20 addressed in this classification.

21 DR. BAKLAND: And, the name again of that?

22 MR. WATTON: Expositil.

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1 DR. BAKLAND: Okay.

2 CHAIRMAN SUZUKI: Dr. Zuniga?

3 Dr. Runner would like to clarify.

4 DR. RUNNER: Just a comment that we are  
5 classifying the pre-amendments device, any of these  
6 newer types of cords would be found substantially  
7 equivalent to the cord. So, you really don't have to  
8 look at those new types of devices here, just the pre-  
9 amendments device, which was the cord.

10 CHAIRMAN SUZUKI: Thank you, Dr. Runner.

11 There's a question from a panelist, Dr.  
12 Zuniga?

13 DR. ZUNIGA: This is more for my  
14 information. I don't use this material in my  
15 practices, but does the industry regulate, or  
16 recommend, I shouldn't say regulate, or provide  
17 guidance for the maximum amount of impregnated  
18 material per patient?

19 MR. WATTON: No, that has -- I mean, there  
20 are contraindications on the literature, but it's been  
21 somewhat self-policing all these years, as far as the  
22 recommendation. Some people don't even have

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1 specifications -- written specifications on the label  
2 as to the quantity of material that is on the cord.

3 So, no, there has been no unified system.

4 CHAIRMAN SUZUKI: Okay. Other questions?

5 Would you like to comment?

6 Well, at this point we do have an open  
7 comment session regarding this classification, so if  
8 there are other members that would like to present in  
9 the audience please approach the microphone and  
10 identify yourself for the record.

11 So, I will call on Mr. Vogelstein, who  
12 would like to comment again.

13 MR. VOGELSTEIN: I'd like to help clarify  
14 on the newer impression methodologies.  
15 Coltene/Whaledent has a device that is essentially an  
16 impression material. It is classified and has been  
17 accepted as both an impression material and a  
18 retraction cord. So, it is an impression material  
19 that is extruded into the sulcus, and the nature of  
20 the material makes it expand and open up the sulcus,  
21 and then very easy to remove it afterwards. That is  
22 another one of these newfangled ideas that are out

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1       there.

2                   CHAIRMAN SUZUKI: Okay, thank you, Mr.  
3       Vogelstein.

4                   Other questions or comments from the  
5       Panel?

6                   Any questions or comments from the  
7       audience?

8                   If not, I'd like to ask if Ms. Shulman can  
9       lead us into the classification forms.

10                  MS. SHULMAN: Okay.

11                  Thank you again. I gave everyone two  
12       forms, because we are going to go through this twice,  
13       because this is what we call a split regulation, so we  
14       are going to go first through the one, retraction cord  
15       without a drug, and then we'll go through, again, with  
16       the drug.

17                  So, again thank you very much. If you can  
18       please put your name, the date, the generic type of  
19       device, and the first one is the retraction cord  
20       without a drug. Okay.

21                  CHAIRMAN SUZUKI: Okay, we can proceed then  
22       with number one.

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1 MS. SHULMAN: Question number one, is the  
2 device life-sustaining or life-supporting?

3 CHAIRMAN SUZUKI: Okay, I'll go around the  
4 table again, beginning with Dr. Cochran.

5 DR. COCHRAN: No.

6 CHAIRMAN SUZUKI: Dr. O'Brien?

7 DR. O'BRIEN: No.

8 CHAIRMAN SUZUKI: Dr. Zero?

9 DR. ZERO: No.

10 CHAIRMAN SUZUKI: Dr. Zuniga?

11 DR. ZUNIGA: No.

12 CHAIRMAN SUZUKI: Our consumer and industry  
13 representatives.

14 Ms. Howe?

15 MS. HOWE: No.

16 CHAIRMAN SUZUKI: Mr. Schechter?

17 MR. SCHECHTER: No.

18 CHAIRMAN SUZUKI: Consultants.

19 Dr. Bakland?

20 DR. BAKLAND: No.

21 CHAIRMAN SUZUKI: Dr. Demko?

22 DR. DEMKO: No.

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1 CHAIRMAN SUZUKI: Okay.

2 MS. SHULMAN: Thank you.

3 Question number two, is the device for use  
4 which is of substantial importance in preventing  
5 impairment of human health?

6 CHAIRMAN SUZUKI: Okay, going around again.

7 Dr. Cochran?

8 DR. COCHRAN: No.

9 CHAIRMAN SUZUKI: Dr. O'Brien?

10 DR. O'BRIEN: No.

11 CHAIRMAN SUZUKI: Dr. Zero?

12 DR. ZERO: No.

13 CHAIRMAN SUZUKI: Dr. Zuniga?

14 DR. ZUNIGA: No.

15 CHAIRMAN SUZUKI: Consumer and industry  
16 reps.

17 Ms. Howe?

18 MS. HOWE: No.

19 CHAIRMAN SUZUKI: Mr. Schechter?

20 MR. SCHECHTER: No.

21 CHAIRMAN SUZUKI: Consultants.

22 Dr. Bakland?

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1 DR. BAKLAND: No.

2 CHAIRMAN SUZUKI: Dr. Demko?

3 DR. DEMKO: No.

4 CHAIRMAN SUZUKI: Okay.

5 MS. SHULMAN: Thank you.

6 Number three, does the device present a  
7 potential unreasonable risk of illness or injury?

8 CHAIRMAN SUZUKI: Dr. Cochran?

9 DR. COCHRAN: No.

10 CHAIRMAN SUZUKI: Dr. O'Brien?

11 DR. O'BRIEN: No.

12 CHAIRMAN SUZUKI: Dr. Zero?

13 DR. ZERO: No.

14 CHAIRMAN SUZUKI: Dr. Zuniga?

15 DR. ZUNIGA: No.

16 CHAIRMAN SUZUKI: Ms. Howe?

17 MS. HOWE: No.

18 CHAIRMAN SUZUKI: Mr. Schechter?

19 MR. SCHECHTER: No.

20 CHAIRMAN SUZUKI: Dr. Bakland?

21 DR. BAKLAND: No.

22 CHAIRMAN SUZUKI: Dr. Demko?

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1 DR. DEMKO: No.

2 MS. SHULMAN: Okay.

3 Number four, did you answer yes to any of  
4 the above three questions? The answer is no.

5 We'll go to number five, is there  
6 sufficient information to determine that general  
7 controls are sufficient to provide reasonable  
8 assurance of safety and effectiveness?

9 CHAIRMAN SUZUKI: Okay.

10 Dr. Cochran?

11 DR. COCHRAN: Yes.

12 CHAIRMAN SUZUKI: Dr. O'Brien?

13 DR. O'BRIEN: Yes.

14 CHAIRMAN SUZUKI: Dr. Zero?

15 DR. ZERO: Yes.

16 CHAIRMAN SUZUKI: Dr. Zuniga?

17 DR. ZUNIGA: Yes.

18 CHAIRMAN SUZUKI: Representatives.

19 Ms. Howe?

20 MS. HOWE: Yes.

21 CHAIRMAN SUZUKI: Mr. Schechter?

22 MR. SCHECHTER: Yes.

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1 CHAIRMAN SUZUKI: Consultants.

2 Dr. Bakland?

3 DR. BAKLAND: Yes.

4 CHAIRMAN SUZUKI: Dr. Demko

5 DR. DEMKO: Yes.

6 MS. SHULMAN: Thank you.

7 Okay, we have classified the device into  
8 Class I. So, we may skip questions six, seven, eight,  
9 nine and ten.

10 Question 11, the needed restrictions, the  
11 first one, the prescription statement, only upon the  
12 written or oral authorization of a practitioner  
13 licensed by law to administer the use of the device,  
14 and then the other two are added on or any other, use  
15 only by persons with specific training or experience  
16 in its use, and use only in certain facilities. This  
17 is a prescription device.

18 CHAIRMAN SUZUKI: Okay.

19 Dr. Cochran?

20 DR. COCHRAN: The first box.

21 CHAIRMAN SUZUKI: Dr. O'Brien?

22 DR. O'BRIEN: First box.

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1 CHAIRMAN SUZUKI: Dr. Zero?

2 DR. ZERO: I would say the first two boxes.

3 CHAIRMAN SUZUKI: Dr. Zuniga?

4 DR. ZUNIGA: First box.

5 CHAIRMAN SUZUKI: Representatives.

6 Ms. Howe?

7 MS. HOWE: First two boxes.

8 CHAIRMAN SUZUKI: Mr. Schechter?

9 MR. SCHECHTER: The first box.

10 CHAIRMAN SUZUKI: Dr. Bakland?

11 DR. BAKLAND: May I ask a quick question  
12 before I answer? The second box, does that imply that  
13 a dentist may direct, say, an assistant to perform the  
14 procedure?

15 CHAIRMAN SUZUKI: Dr. Betz should probably  
16 answer that question.

17 DR. BETZ: There is a potential for abuse  
18 of this particular device by non-licensed  
19 practitioners.

20 Can you repeat the question one more time?

21 DR. BAKLAND: The question was whether the  
22 second box would imply that a dentist may instruct a

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1 dental assistant to perform the procedure with the  
2 cord.

3 DR. BETZ: No, no, we are not recommending  
4 that.

5 DR. BAKLAND: in that case, the first box.

6 CHAIRMAN SUZUKI: Okay.

7 MS. SHULMAN: Thank you, just for  
8 clarification, these boxes add on top of each other,  
9 so the first one is prescription statement, and then  
10 the second one would be in addition to that.

11 CHAIRMAN SUZUKI: So, just for further  
12 clarification, if the first box is checked, the  
13 prescription actually has to be written to the  
14 patient's chart before using this product?

15 MS. SHULMAN: We would not get into that as  
16 the FDA, that would be in the practice of medicine how  
17 you would deal with that.

18 CHAIRMAN SUZUKI: Dr. Runner?

19 DR. RUNNER: It's, basically, a  
20 prescription device, meaning that the patient is not  
21 going to go out and buy their own retraction cord over  
22 the counter. They could get it from their dentist,

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1 which is pretty reasonable. Most people aren't going  
2 to buy it for themselves.

3 And, in terms of the two items, the  
4 training means sometimes in high-risk devices you need  
5 specific training to use a device that you would  
6 recommend.

7 We don't really have any say about what a  
8 dentist can do with their own assistants. That's the  
9 practice of dentistry or medicine in a particular  
10 state.

11 So, yes, a dentist could say to their  
12 assistant, use this, but that's not what we regulate.

13 We regulate what the manufacturer can say about the  
14 device.

15 CHAIRMAN SUZUKI: Dr. Zero?

16 DR. ZERO: Just as further clarification so  
17 I can uncheck or preserve my check, so if I check the  
18 second box that would imply that there would have to  
19 be specific described training for the use of this?

20 DR. RUNNER: That's usually what it  
21 implies. I think that's usually for Class III type  
22 devices, where we are recommending that a particular

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1 practitioner have specific training in use of devices,  
2 like a TMJ implant. But, I don't --

3 DR. ZERO: So, this would be beyond dental  
4 school training then.

5 DR. RUNNER: I believe so, yes.

6 DR. ZERO: Okay, so I will uncheck my box.

7 CHAIRMAN SUZUKI: Uncheck.

8 DR. ZERO: Yes.

9 CHAIRMAN SUZUKI: Okay.

10 And, the last consultant, Dr. Demko?

11 DR. DEMKO: First box.

12 CHAIRMAN SUZUKI: Okay.

13 MS. SHULMAN: Thank you, we'll move on to  
14 the supplemental data sheet.

15 Okay again, the generic type of device,  
16 please place your name on the sheet, the Advisory  
17 Panel, and then question three, is the device an  
18 implant? No.

19 CHAIRMAN SUZUKI: And, just for  
20 clarification, the generic type of device should be  
21 Retraction Cord (without drug), is that correct?

22 MS. SHULMAN: Yes, thank you.

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1                   Okay, I was just pulling up the indication  
2 for use, question four, the indications for use in the  
3 device labeling, and it is the first one on this  
4 overhead. You can say on your sheet, as presented in  
5 the Panel meeting, or you can make any comments now  
6 that you would like to see to the indication for use  
7 as presented.

8                   CHAIRMAN SUZUKI: Any comments, questions?

9                   I think we'll just take a vote at the end of the  
10 form, if that's okay with everybody on the Panel.

11                  MS. SHULMAN: Thank you.

12                  Number five, the identification of any  
13 risks to health presented by the device, and we have  
14 put this overhead up so you can make any comments or  
15 add to it, and if there are no comments we can move on  
16 to the next question.

17                  CHAIRMAN SUZUKI: Would this slide also  
18 include drug components, and what we are voting on is  
19 without drug?

20                  MS. SHULMAN: Correct, thank you, this one  
21 does ignore anything that has to do with the drug.

22                  Okay, if there are no comments we'll move

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1 on to question six, the recommended Advisory  
2 classification there would be Class I. The priority  
3 only applies to Class II or Class III devices, so we  
4 don't have to go through that.

5 Number seven we may skip because it is not  
6 an implant or life-supporting or life-sustaining.

7 Question eight, summary of information  
8 including clinical experience or judgment upon which  
9 the classification recommendation is based, you may  
10 say it was presented in the Panel meeting or you may  
11 add anything else at this time you wish to.

12 Okay, if there's no further comments on  
13 that, question nine, the identification of any needed  
14 restriction, any additional one besides the  
15 prescription use labeling.

16 If there are no questions there, we'll go  
17 to number ten, if the device is recommended for Class  
18 I recommend whether FDA should exempt it from  
19 registration listing, pre-market notification, records  
20 and reports, good manufacturing practice. You can  
21 choose any or all of the above or none of the above.

22 DR. COCHRAN: What was the FDA

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1 recommendation, it was exempt, but --

2 MS. SHULMAN: From pre-market notification,  
3 B.

4 CHAIRMAN SUZUKI: Any other questions from  
5 Panel members?

6 DR. COCHRAN: Could Dr. Betz maybe comment  
7 on A, C or D also?

8 DR. BETZ: This particular product is in  
9 contact with tissues that absorb materials into the  
10 bloodstream quite readily, and, therefore, we would,  
11 hopefully, want to have a fairly close handle on it.  
12 So, I would believe that registration, and listing,  
13 and records and reports would be important for this  
14 particular product.

15 Did that answer your question, along with  
16 GMPs.

17 CHAIRMAN SUZUKI: On this side of the table  
18 first, Dr. Bakland?

19 DR. BAKLAND: Yes, if we are talking about  
20 the cord without any impregnation, would your comments  
21 still apply?

22 DR. BETZ: Yes, yes, because the cord may

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1 have something in it other than a medication, sizing  
2 like that which would come in a brand new shirt from  
3 the store, something to keep the fibers from  
4 separating. There are any one of a host of things  
5 that are possible.

6 CHAIRMAN SUZUKI: Okay.

7 Dr. Zero?

8 DR. ZERO: Yes. Along those lines, the  
9 fact that the plain cord is typically used in  
10 combination with other medicaments, is that of concern  
11 here?

12 DR. BETZ: Again, we were regulating  
13 something that was pre-existing pretty much in '76.  
14 Other products, like Hemodent, are separate from this,  
15 and as such we wouldn't regular them as such with this  
16 particular classification.

17 CHAIRMAN SUZUKI: Okay.

18 Dr. O'Brien?

19 DR. O'BRIEN: If the product is exempt from  
20 pre-market notification, but needs to be registered  
21 and records have to be kept, how does the manufacturer  
22 do this with the FDA?

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1 DR. BETZ: Well, there are forms for  
2 registering a listing.

3 DR. O'BRIEN: Separate forms then?

4 DR. BETZ: The company needs to keep a  
5 master device file for everything that's there, that  
6 will enable them to find out whether it trips the  
7 exemption or not, and if they don't have the master  
8 file they won't know whether it does or not.

9 DR. O'BRIEN: When does the registration  
10 need to take place, upon marketing?

11 DR. BETZ: Before marketing.

12 DR. O'BRIEN: Before marketing.

13 CHAIRMAN SUZUKI: With regard to good  
14 manufacturing practice, is there a quality control  
15 issue with respect to other manufacturing of these  
16 cords? Has that ever been a question before?

17 DR. BETZ: Not -- I'm not aware of any  
18 particular stuff. Obviously, we want decent quality  
19 cords, and that which hasn't been dragged through the  
20 ground, the dirt. So, there are certain quality  
21 issues that do apply.

22 CHAIRMAN SUZUKI: So, that's never been

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1 raised as a question before?

2 DR. BETZ: No.

3 CHAIRMAN SUZUKI: Okay.

4 DR. BETZ: Thank God.

5 CHAIRMAN SUZUKI: Okay.

6 Dr. Zero?

7 DR. ZERO: Are there any ISO guidelines for  
8 these products?

9 DR. BETZ: Only the ones we mentioned, the  
10 10993, the biocompatibility, which would take care of  
11 the material itself.

12 DR. ZERO: But, not any of the--

13 DR. BETZ: Oh, and 7405 is the dental  
14 corollary to that, yes. No other statements that I'm  
15 aware of, no.

16 CHAIRMAN SUZUKI: Okay, any other comments,  
17 questions?

18 DR. O'BRIEN: One more question.

19 CHAIRMAN SUZUKI: Okay.

20 Dr. O'Brien?

21 DR. O'BRIEN: Do you know if the American  
22 Dental Association has any standards or certification

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1 procedures relating to these products?

2 DR. BETZ: I would believe they have some  
3 kind of a -- they do not? I've been told, no, they do  
4 not.

5 CHAIRMAN SUZUKI: Okay.

6 Ms. Shulman?

7 MS. SHULMAN: So, in addition to B, pre-  
8 market notification, was there anything else that you  
9 felt that it should be exempt from?

10 Okay, so that would be B, pre-market  
11 notification.

12 Number 11 we may skip because that only  
13 has to do with Class II devices.

14 Number 12, if you know of any other ones  
15 besides the ones mentioned, existing standards, then  
16 you can list them at this point.

17 Okay, if there are none of those, we can  
18 vote on both sheets as combined, as a Class I, exempt  
19 device, from pre-market notification.

20 CHAIRMAN SUZUKI: Okay. So, I'd like to  
21 ask if you are in favor or opposed to the device,  
22 beginning first with Dr. Cochran.

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1 DR. COCHRAN: Approve.

2 CHAIRMAN SUZUKI: Dr. O'Brien?

3 DR. O'BRIEN: Approve.

4 CHAIRMAN SUZUKI: Dr. Zero?

5 DR. ZERO: Approve.

6 CHAIRMAN SUZUKI: Dr. Zuniga?

7 DR. ZUNIGA: Approve.

8 CHAIRMAN SUZUKI: Representatives.

9 Ms. Howe?

10 MS. HOWE: Approve.

11 CHAIRMAN SUZUKI: Mr. Schechter?

12 MR. SCHECHTER: Approve.

13 CHAIRMAN SUZUKI: Consultants.

14 Dr. Bakland?

15 DR. BAKLAND: Approve.

16 CHAIRMAN SUZUKI: Dr. Demko

17 DR. DEMKO: Approve.

18 CHAIRMAN SUZUKI: It's unanimous in favor.

19 MS. SHULMAN: Thank you.

20 Now we are going to go on to the sheets  
21 again and do the retraction cord with drug.

22 So again, please fill out your name on the

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1 top, the date, the generic type of device, and we'll  
2 begin with question one again, is the device life-  
3 sustaining or life-supporting?

4 CHAIRMAN SUZUKI: Dr. Cochran?

5 DR. COCHRAN: No.

6 CHAIRMAN SUZUKI: Dr. O'Brien?

7 DR. O'BRIEN: No.

8 CHAIRMAN SUZUKI: Dr. Zero?

9 DR. ZERO: No.

10 CHAIRMAN SUZUKI: Dr. Zuniga?

11 DR. ZUNIGA: No.

12 CHAIRMAN SUZUKI: Representatives.

13 Ms. Howe?

14 MS. HOWE: No.

15 CHAIRMAN SUZUKI: Mr. Schechter?

16 MR. SCHECHTER: No.

17 CHAIRMAN SUZUKI: Dr. Bakland?

18 DR. BAKLAND: No.

19 CHAIRMAN SUZUKI: Dr. Demko?

20 DR. DEMKO: No.

21 MS. SHULMAN: Okay, thank you.

22 Question two, is the device for use which

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1 is of substantial importance in preventing impairment  
2 of human health?

3 CHAIRMAN SUZUKI: Dr. Cochran?

4 DR. COCHRAN: No.

5 CHAIRMAN SUZUKI: Dr. O'Brien?

6 DR. O'BRIEN: No.

7 CHAIRMAN SUZUKI: Dr. Zero?

8 DR. ZERO: No.

9 CHAIRMAN SUZUKI: Dr. Zuniga?

10 DR. ZUNIGA: No.

11 CHAIRMAN SUZUKI: Representatives.

12 Ms. Howe?

13 MS. HOWE: No.

14 CHAIRMAN SUZUKI: Mr. Schechter?

15 MR. SCHECHTER: No.

16 CHAIRMAN SUZUKI: Dr. Bakland?

17 DR. BAKLAND: No.

18 CHAIRMAN SUZUKI: Dr. Demko?

19 DR. DEMKO: No.

20 MS. SHULMAN: Thank you.

21 Question three, does the device present a  
22 potential unreasonable risk of illness or injury?

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1 CHAIRMAN SUZUKI: Dr. Cochran?

2 DR. COCHRAN: No.

3 CHAIRMAN SUZUKI: Dr. O'Brien?

4 DR. O'BRIEN: Yes.

5 CHAIRMAN SUZUKI: Dr. Zero?

6 DR. ZERO: Yes.

7 CHAIRMAN SUZUKI: Dr. Zuniga?

8 DR. ZUNIGA: Yes.

9 CHAIRMAN SUZUKI: Representatives.

10 Ms. Howe?

11 MS. HOWE: No.

12 CHAIRMAN SUZUKI: Mr. Schechter?

13 MR. SCHECHTER: No.

14 CHAIRMAN SUZUKI: Dr. Bakland?

15 DR. BAKLAND: No.

16 CHAIRMAN SUZUKI: Dr. Demko?

17 DR. DEMKO: Yes.

18 CHAIRMAN SUZUKI: Okay, it's a yes vote,  
19 3:1.

20 MS. SHULMAN: Thank you.

21 Question four, did you answer yes to any  
22 of the above three questions? That answer is yes. We

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1 will go to number six.

2 Is there sufficient information to  
3 establish special controls in addition to the general  
4 controls to provide reasonable assurance of safety and  
5 effectiveness?

6 CHAIRMAN SUZUKI: Dr. Cochran?

7 DR. COCHRAN: Yes.

8 CHAIRMAN SUZUKI: Dr. O'Brien?

9 DR. O'BRIEN: No.

10 CHAIRMAN SUZUKI: Dr. Zero?

11 DR. ZERO: I think I might need a  
12 clarification. So, if it's requiring special controls  
13 this would be --

14 MS. SHULMAN: Class II.

15 DR. ZERO: Class II.

16 Yes.

17 CHAIRMAN SUZUKI: Dr. Zuniga?

18 DR. ZUNIGA: Yes.

19 CHAIRMAN SUZUKI: Representatives.

20 Ms. Howe?

21 MS. HOWE: Yes.

22 CHAIRMAN SUZUKI: Mr. Schechter?

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1 Representatives.

2 MR. SCHECHTER: Yes.

3 CHAIRMAN SUZUKI: Dr. Bakland?

4 DR. BAKLAND: Yes.

5 CHAIRMAN SUZUKI: Dr. Demko?

6 DR. DEMKO: Yes.

7 CHAIRMAN SUZUKI: Yes vote 3:1.

8 MS. SHULMAN: Thank you.

9 Question seven, if there is sufficient  
10 information to establish special controls to provide  
11 the reasonable assurance of safety and effectiveness,  
12 please identify below the special controls needed to  
13 provide such assurance.

14 There was a guidance document presented,  
15 and then the additional ones, performance standards,  
16 tracking guidelines or anything else.

17 CHAIRMAN SUZUKI: And, the FDA  
18 recommendation?

19 MS. SHULMAN: Guidance document.

20 CHAIRMAN SUZUKI: Was guidance document.

21 Okay.

22 Dr. Cochran?

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1 DR. COCHRAN: Guidance document.

2 CHAIRMAN SUZUKI: Dr. O'Brien?

3 DR. O'BRIEN: Guidance document.

4 CHAIRMAN SUZUKI: Dr. Zero?

5 DR. ZERO: Guidance document.

6 CHAIRMAN SUZUKI: Dr. Zuniga?

7 DR. ZUNIGA: Guidance document.

8 CHAIRMAN SUZUKI: Representatives.

9 Ms. Howe?

10 MS. HOWE: Guidance document.

11 CHAIRMAN SUZUKI: Mr. Schechter?

12 MR. SCHECHTER: Guidance document.

13 CHAIRMAN SUZUKI: Consultants.

14 Dr. Bakland?

15 DR. BAKLAND: Guidance document.

16 CHAIRMAN SUZUKI: Dr. Demko?

17 DR. DEMKO: Guidance document.

18 CHAIRMAN SUZUKI: Okay, unanimous, guidance  
19 document.

20 MS. SHULMAN: Thank you.

21 Questions eight, and nine, and ten we may  
22 skip because that has to do with performance standards

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1 or Class III devices.

2 So, again, we go to question 11, the  
3 prescription use statement, and it is a prescription  
4 device, but is there any other additional restrictions  
5 that you feel are needed for this device?

6 CHAIRMAN SUZUKI: So, you are recommending  
7 upon the written or oral authorization?

8 MS. SHULMAN: Correct.

9 CHAIRMAN SUZUKI: Of the practitioner.

10 MS. SHULMAN: Yes.

11 CHAIRMAN SUZUKI: Dr. Cochran?

12 DR. COCHRAN: First box.

13 CHAIRMAN SUZUKI: Dr. O'Brien?

14 DR. O'BRIEN: First box, but I have a  
15 question.

16 Does this include warnings, in terms of  
17 other? Would that go under the first box plus  
18 warnings?

19 MS. SHULMAN: No, warnings would go into  
20 the labeling section of the guidance document.

21 DR. O'BRIEN: That's not included here.

22 MS. SHULMAN: Right.

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1 DR. O'BRIEN: Okay, first box.

2 CHAIRMAN SUZUKI: Okay.

3 Dr. Zero?

4 DR. ZERO: First box.

5 CHAIRMAN SUZUKI: Dr. Zuniga?

6 DR. ZUNIGA: First box.

7 CHAIRMAN SUZUKI: Representatives.

8 Ms. Howe?

9 MS. HOWE: First box.

10 CHAIRMAN SUZUKI: Mr. Schechter?

11 MR. SCHECHTER: First box.

12 CHAIRMAN SUZUKI: Consultants.

13 Dr. Bakland?

14 DR. BAKLAND: First box.

15 CHAIRMAN SUZUKI: Dr. Demko?

16 DR. DEMKO: First box.

17 CHAIRMAN SUZUKI: Unanimous, first box,  
18 written or oral authorization.

19 MS. SHULMAN: Okay, thank you.

20 We can move on to the second sheet.

21 Again question three, is it an implant?

22 No.

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1                   Four, the indications for use. The second  
2 one shown, the retraction cords with a drug component  
3 are indicated for retraction of tissues and plates  
4 where tissues are bleeding and there are no medical  
5 contraindications.

6                   If you agree with that you can say as  
7 presented, or you may add any other comments you want  
8 at this time.

9                   Okay, there seem to be no comments.

10                  CHAIRMAN SUZUKI: No comments from the  
11 Panel?

12                  Okay, we can continue.

13                  MS. SHULMAN: Number five, the  
14 identifications to the risks to health. Again, they  
15 are up on the overhead. If there's any additions you  
16 can add them at this time, if not you can say as  
17 presented during the Panel meeting.

18                  No additional comments, we can go on to  
19 question six, the classification is Class II. Again,  
20 the priority high, medium or low, how fast would you  
21 like us to work on the proposed and final regulation  
22 for this.

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1 CHAIRMAN SUZUKI: Okay, I'll poll the Panel  
2 members.

3 Dr. Cochran?

4 DR. COCHRAN: Low.

5 CHAIRMAN SUZUKI: Dr. O'Brien?

6 DR. O'BRIEN: Medium.

7 CHAIRMAN SUZUKI: Dr. Zero?

8 DR. ZERO: Medium.

9 CHAIRMAN SUZUKI: Dr. Zuniga?

10 DR. ZUNIGA: Medium.

11 CHAIRMAN SUZUKI: Representatives.

12 Ms. Howe?

13 MS. HOWE: High, and I reference my  
14 previous comments.

15 CHAIRMAN SUZUKI: Okay.

16 Mr. Schechter?

17 MR. SCHECHTER: Low.

18 CHAIRMAN SUZUKI: Dr. Bakland?

19 DR. BAKLAND: Low.

20 CHAIRMAN SUZUKI: Dr. Demko?

21 DR. DEMKO: Low.

22 CHAIRMAN SUZUKI: It's 3:1 in favor of

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1 medium.

2 MS. SHULMAN: Thank you.

3 Question seven we may skip because it's  
4 not an implant or life-sustaining or life-supporting.

5 Number eight, the summary of information  
6 upon which the classification recommendation is based,  
7 you may say as presented in the Panel meeting or you  
8 can add anything else you wish to at this time.

9 No comments, then we'll go to question  
10 nine, identification of any needed restriction on the  
11 device, special labeling. We already have the  
12 prescription use, anything you wanted to add?

13 DR. O'BRIEN: In terms of labeling, there  
14 could be an interaction between the presence of  
15 epinephrine and local anesthetic with the use of a  
16 cord that had a high level of epinephrine in it. So,  
17 the warning might include some warning about an  
18 interaction between the anesthetic and the retraction  
19 cord.

20 CHAIRMAN SUZUKI: That was Dr. O'Brien that  
21 just spoke.

22 MS. SHULMAN: Thank you.

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1 DR. ZUNIGA: Jon?

2 CHAIRMAN SUZUKI: Dr. Zuniga?

3 DR. ZUNIGA: One more consideration may be  
4 wanting to add a restriction, and that is, some  
5 indication of the maximum amount of cord per  
6 individual.

7 MS. SHULMAN: That is fine, thank you.

8 CHAIRMAN SUZUKI: As measured by length of  
9 cord or number of teeth involved, or both?

10 DR. ZUNIGA: That's not my decision. I  
11 said per person, but that could include children, so I  
12 don't know.

13 CHAIRMAN SUZUKI: Okay. We'll make that  
14 note.

15 MS. SHULMAN: Thank you.

16 We'll move on to the second page, question  
17 ten we may skip.

18 Question 11, is the device is recommended  
19 for Class II, recommend whether FDA should exempt it  
20 from pre-market notification.

21 CHAIRMAN SUZUKI: Okay, I'll ask the Panel  
22 members on this issue, question number 11.

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1 Dr. Cochran?

2 DR. COCHRAN: Not exempt.

3 CHAIRMAN SUZUKI: Dr. O'Brien?

4 DR. O'BRIEN: Not exempt.

5 CHAIRMAN SUZUKI: Dr. Zero?

6 DR. ZERO: Not exempt.

7 CHAIRMAN SUZUKI: Dr. Zuniga?

8 DR. ZUNIGA: Not exempt.

9 CHAIRMAN SUZUKI: Representatives.

10 Ms. Howe?

11 MS. HOWE: Not exempt.

12 CHAIRMAN SUZUKI: Mr. Schechter?

13 MR. SCHECHTER: Not exempt.

14 CHAIRMAN SUZUKI: Consultants.

15 Dr. Bakland?

16 DR. BAKLAND: Not exempt.

17 CHAIRMAN SUZUKI: Dr. Demko?

18 DR. DEMKO: Not exempt.

19 CHAIRMAN SUZUKI: Okay, unanimous, not  
20 exempt.

21 MS. SHULMAN: Thank you, not exempt.

22 Question 12, any other existing standards

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1 that you know of.

2 CHAIRMAN SUZUKI: Okay, any questions from  
3 Panel members?

4 None.

5 MS. SHULMAN: Okay, thank you.

6 At this time, we'll vote on the forms,  
7 both forms, as completed as a Class II device,  
8 requiring pre-market notification, subject to the  
9 guidance document.

10 CHAIRMAN SUZUKI: Dr. Cochran?

11 DR. COCHRAN: No.

12 CHAIRMAN SUZUKI: Dr. O'Brien?

13 DR. O'BRIEN: No.

14 CHAIRMAN SUZUKI: Dr. Zero?

15 DR. ZERO: No.

16 CHAIRMAN SUZUKI: Dr. Zuniga?

17 DR. ZUNIGA: No.

18 CHAIRMAN SUZUKI: Representatives.

19 Ms. Howe?

20 MS. HOWE: No.

21 CHAIRMAN SUZUKI: Mr. Schechter?

22 MR. SCHECHTER: No.

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1 CHAIRMAN SUZUKI: Dr. Bakland?

2 DR. BAKLAND: No.

3 CHAIRMAN SUZUKI: Dr. Demko?

4 DR. DEMKO: No.

5 CHAIRMAN SUZUKI: Okay, we'll vote on the  
6 entire supplemental data sheets.

7 Dr. Cochran?

8 DR. COCHRAN: Approve.

9 CHAIRMAN SUZUKI: Dr. O'Brien?

10 DR. O'BRIEN: Approve.

11 CHAIRMAN SUZUKI: Dr. Zero?

12 DR. ZERO: Approve.

13 CHAIRMAN SUZUKI: Dr. Zuniga?

14 DR. ZUNIGA: Approve.

15 CHAIRMAN SUZUKI: Representatives.

16 Ms. Howe?

17 MS. HOWE: Approve.

18 CHAIRMAN SUZUKI: Mr. Schechter?

19 MR. SCHECHTER: Approve.

20 CHAIRMAN SUZUKI: Dr. Bakland?

21 DR. BAKLAND: Approve.

22 CHAIRMAN SUZUKI: Dr. Demko?

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1 DR. DEMKO: Approve.

2 CHAIRMAN SUZUKI: Okay, it's unanimous.

3 MS. SHULMAN: Thank you very much.

4 CHAIRMAN SUZUKI: At this time I will call  
5 for adjournment for lunch. We have an hour and 15  
6 minutes for lunch.

7 Thank you. We'll come back at 1:00.

8 (Whereupon, the meeting was recessed at  
9 11:34 a.m., to reconvene at 1:00 p.m., this same day.)

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1:02 p.m.

CHAIRMAN SUZUKI: And, I'd like to welcome Dr. Salomon Amar, who has joined our Panel for this afternoon.

Okay, next on our agenda is FDA's presentation of the proposed classification of oral wound dressing, and is Ms. Angela Blackwell present?

Okay, Ms. Blackwell?

MS. BLACKWELL: Hello, my name is Angela Blackwell, and I'm speaking today about the classification of oral wound dressings.

The sections of my presentation are description of oral wound dressings, the regulatory history, the adverse event reports from the Medical Device Reporting database, the risks to health that we've identified, and their mitigations, and our proposed classification.

Oral wound dressings are intended as a physical barrier for temporary protection of oral mucosal tissue and to provide pain relief.

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1           For prescription use, they are used after  
2 periodontal surgery or radiation therapy. For over-  
3 the-counter use, they are for relief from irritation  
4 of oral appliances, aphthous ulcers or other oral  
5 wounds.

6           Oral wound dressings may contain a drug or  
7 biologic, but the primary mode of action is provided  
8 by the physical barrier property of the device  
9 component.

10           Pre-amendment devices that were used in  
11 the practice of dentistry before 1976 include the  
12 original Orabase, Orabase with Kenalog, and Coe Pak.

13           Fifteen 510(k)s have been cleared for oral  
14 wound dressings. Historically, these devices have  
15 been regulated under different classifications or  
16 remain unclassified. One was cleared as a dental  
17 cement or as periodontal wound dressings, and ten as  
18 unclassified hydrogel wound dressings containing drugs  
19 or biologics.

20           The objective today is to classify these  
21 into one classification for oral wound dressings.

22           The database contains ten adverse event

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1 reports. Nine are reports of allergic reactions to a  
2 periodontal wound dressing, and there's one report of  
3 adhering mucosal tissue to a tooth.

4 The risks we have identified are adverse  
5 tissue reaction to the device or the drug component.  
6 That includes the potential of accidental ingestion,  
7 and improper use, particularly, the problem of  
8 adhesion of tissues.

9 Proposed mitigations are biocompatibility  
10 testing, labeling, a drug review by CDER, preclinical  
11 testing, and labeling.

12 FDA's proposal is the following.  
13 Identification, oral wound dressings are devices  
14 intended as a physical barrier for temporary  
15 protection of oral mucosal tissue and to provide pain  
16 relief.

17 Our recommendation is Class II with  
18 special controls. The special control for this device  
19 would be the guidance document, Class II Special  
20 Controls Guidance document, Oral Wound Dressings.

21 Thank you.

22 Are there any questions?

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1 CHAIRMAN SUZUKI: Okay. Does the Panel  
2 have any questions for Ms. Blackwell?

3 Dr. O'Brien?

4 DR. O'BRIEN: Yes. You mentioned one type  
5 was the ten hydrogels, do you know, specifically, what  
6 type of hydrogel that was?

7 MS. BLACKWELL: There's more than one type  
8 that's on the market. Most of them contain something  
9 like aloe vera or something, that's the drug component  
10 that's in them. It's a very minimal amount, in some  
11 cases it's a below therapeutic dose, but then there's  
12 other ones that contain an active ingredient like  
13 benzocaine or Kenalog.

14 DR. O'BRIEN: What would be the hydrogel  
15 matrix then? Would they be alginates, or some others?

16 MS. BLACKWELL: Well, they could be any of  
17 those things. Some of the things we've seen are like  
18 carboxymethylcellulose. There's various different  
19 ones on the market. Some of them are -- some of them  
20 look like kind of a dry product that you place, and  
21 then the moisture from your mouth turns it into a gel,  
22 and others are a powder in a bottle that you pour the

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1 water in up to the measurement that's shown on the  
2 bottle and you shake it up. So, you drink it and  
3 swish it around. Those are -- most of the swishing  
4 ones I think are for patients who have more than one  
5 sore, you know, so where you want to put it in various  
6 places at the same time, without having to, you know,  
7 try to get in your mouth and touch every sore.

8 Some patients with braces, for instance,  
9 or the prescription products are that way.

10 DR. O'BRIEN: Thank you.

11 CHAIRMAN SUZUKI: Okay.

12 Ms. Howe?

13 MS. HOWE: You had mentioned that there are  
14 over-the-counter and prescription forms. Do they  
15 differ in any way, any components that are different?

16 MS. BLACKWELL: As far as the ingredients,  
17 no. There are some that are specifically for patients  
18 who have had radiation therapy, or periodontal  
19 surgery, you know, for some other types. There's one  
20 that -- some types are used after periodontal surgery  
21 over the patient's stitches, and those are used by the  
22 clinician, and then the ones that are used after some

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1 types of radiation treatment or some other -- even  
2 other types of treatment that would cause sores in the  
3 patient's mouth, many of those products that are  
4 labeled specifically for that, they are used more  
5 frequently, and they are kind of -- it's kind of an as  
6 needed as opposed to the over-the-counter which say,  
7 you know, don't use more than, you know, four times a  
8 day or six times a day, and that's because those  
9 patients who have those type of diseases or symptoms  
10 they are under a doctor's care. And so, that's who  
11 it's meant for. You know, it may be similar to an  
12 over-the-counter product, sometimes there's even the  
13 same ingredients, but the labeling is different.

14 CHAIRMAN SUZUKI: Okay.

15 Dr. Amar?

16 DR. AMAR: Good afternoon.

17 Could you -- you mentioned some adverse  
18 event report on this.

19 MS. BLACKWELL: Yes.

20 DR. AMAR: And, some of them were allergic  
21 reactions.

22 MS. BLACKWELL: Yes.

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1 DR. AMAR: Do you know if there were  
2 systemic or localized allergic reaction?

3 MS. BLACKWELL: Some of both.

4 DR. AMAR: Excuse me?

5 MS. BLACKWELL: Some of both.

6 DR. AMAR: And, was there any trend as to  
7 how would they develop? Is it quincodema, for  
8 example?

9 MS. BLACKWELL: Yes, they were all from  
10 periodontal wound dressings, so it was cases where the  
11 patient had had periodontal surgery, and the clinician  
12 put the dressing on and the patient had a reaction.  
13 In many cases, swelling, redness, your normal allergic  
14 reactions, and I believe there were some patients that  
15 it progressed to a systemic effect.

16 Many of the reports were actually filed, I  
17 believe, from one practice. You know, basically, we  
18 got a report saying we've had -- you know, my practice  
19 has had, you know, a bunch of these happen over the  
20 years, so, basically, I guess he realized he had kind  
21 of a critical mass of them, so he reported them.

22 I'm sure there's a lot more out there,

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1 because if this one office has all these patients with  
2 allergies, I'm sure there's a lot that aren't  
3 reported.

4 CHAIRMAN SUZUKI: Okay.

5 Dr. Zuniga?

6 DR. ZUNIGA: My question was, basically,  
7 the same, but were there any of the swish Orabase or  
8 any of those products that had allergic reaction, or  
9 were they pretty much confined to the product of --

10 MS. BLACKWELL: The only allergic reactions  
11 were for periodontal wound dressings.

12 DR. ZUNIGA: Only, okay.

13 MS. BLACKWELL: But, there's no way to tell  
14 if that's the case on the market. I mean, we get so  
15 few reports.

16 CHAIRMAN SUZUKI: Okay.

17 Dr. Demko?

18 DR. DEMKO: Just a simple question. I know  
19 that Orabase is over the counter, is Kenalog and  
20 Orabase also OTC? I thought that was prescription.

21 MS. BLACKWELL: I believe that's a  
22 prescription.

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1 DR. DEMKO: Okay.

2 CHAIRMAN SUZUKI: Okay.

3 Other questions? Comments to Ms.  
4 Blackwell?

5 Yes, Dr. O'Brien?

6 DR. O'BRIEN: One other question. Does  
7 this overlap, like, for example, Orabase with patients  
8 who are treating mouth ulcers, such as could rise from  
9 Herpes infections or that type of thing?

10 MS. BLACKWELL: Yes, it could. This is for  
11 any type of oral wound. So, basically, the products  
12 are the same, they just provide a barrier to cover the  
13 sore. Some contain drugs, you know, like the Orabase  
14 with Kenalog, and I believe there's some other ones  
15 that have been out there for a while that contain drug  
16 products.

17 CHAIRMAN SUZUKI: Yes, there's a series of  
18 Xylactin products that also contain different chemical  
19 components, too, so are we grouping these together or  
20 are we splitting them?

21 MS. BLACKWELL: They are all grouped  
22 together.

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1 CHAIRMAN SUZUKI: With or without drugs?

2 MS. BLACKWELL: Yes, because we couldn't  
3 split them up by -- basically, most of them have  
4 drugs, even the ones that don't have something like  
5 benzocaine or Kenalog in them, most of the gels have a  
6 drug in them that helps form the gel. So, they were  
7 grouped, you know -- they were in an unclassified  
8 grouping called hydrogels with drug or biologic,  
9 because it had a small amount of something in there.  
10 It wasn't added, it was just a component of the gel.

11 CHAIRMAN SUZUKI: So, we're proposing a  
12 group classification and whether or not these products  
13 contain steroids or not they would still be  
14 considered the same.

15 MS. BLACKWELL: Yes, because the device  
16 portion would be, basically, the same. Whether we  
17 need a consult from Drugs or not would depend on what  
18 else is in there, other than the device. But, the  
19 ones that contain drugs, basically, everything else is  
20 exactly the same as those without drug.

21 CHAIRMAN SUZUKI: Okay.

22 Any other questions?

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1                   If not, Ms. Shulman?

2                   We now have an open comment session from  
3 the public concerning the proposed classification of  
4 wound healing dressings, and I'd like to ask if  
5 there's anyone in attendance who would like to present  
6 and address the Panel. And, if there is, please  
7 approach the microphone and identify yourself.

8                   Yes, sir?

9                   MR. YOST: My name is Kevin Yost. I work  
10 for Sunstar Butler, and we have a product that may,  
11 perhaps, fit into this category now, and my question  
12 goes to I think that last statement, where you were  
13 talking about does it have drugs or does it not. It  
14 would seem to me that just like the previous  
15 discussion, where you were looking at the retraction  
16 cords, if there are no drugs involved it seems like a  
17 totally different category than something that does  
18 have any kind of metabolic effect on what's going on  
19 in the mouth. And, I would question whether a product  
20 that is purely mechanical should really be held to the  
21 same criteria as one that has a metabolic effect.

22                   And so, I would ask that you consider,

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1 perhaps, there should be two categories.

2 CHAIRMAN SUZUKI: Okay. Do any Panel  
3 members have questions for Mr. Yost?

4 Thank you.

5 Okay, anyone else from the audience?

6 Any questions and discussion on that  
7 issue?

8 DR. BAKLAND: A question.

9 CHAIRMAN SUZUKI: Yes, Dr. Bakland  
10 speaking.

11 DR. BAKLAND: Yeah, for clarification, you  
12 know, between the incorporation of a drug into a  
13 device or not, did I understand earlier that if a drug  
14 is incorporated into a device there has to be some  
15 statement relative to the purpose of that drug, in  
16 order to then make it a drug classification rather  
17 than just part of the device?

18 MS. BLACKWELL: For most of these products,  
19 the drug has its own indication, because the drug  
20 product would have to be marketed for this type of  
21 indication, you know, through the Center for Drugs.

22 So, in the labeling for combination

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1 products, you have an indication for the combined  
2 product, and if the drug is cleared for market, you  
3 know, in some other form, or in the same form, it has  
4 a specific indication.

5 For instance, if you had a product that  
6 had, say, benzocaine in it, benzocaine is an  
7 anesthetic, so it has an indication as an anesthetic,  
8 but that's not the indication for the wound dressing.

9 The wound dressing is the same indication that you  
10 saw, the physical barrier property.

11 So, there's a difference in the  
12 indications, and so on the labeling both are present  
13 there.

14 DR. BAKLAND: So, based on that explanation  
15 then, whether or not the device has drugs in it, such  
16 as the wound dressing, it still would make sense then  
17 to put them all in the same category?

18 MS. BLACKWELL: Yes, I believe so. The  
19 review for the device component is done the same.  
20 It's just that if it has a therapeutic level of a drug  
21 we have to have additional input from the Center for  
22 Drugs, and the device, the combination product

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1 labeling mustn't conflict with the labeling for the  
2 marketed drug product.

3 CHAIRMAN SUZUKI: Other questions,  
4 comments?

5 Okay, Ms. Shulman?

6 MS. SHULMAN: Just as a matter of  
7 clarification first, you all may vote to separate it  
8 and make it a split classification if you want. So, if  
9 you want to discuss that first before we go through,  
10 and then decide to do it all at once, or split the  
11 classification, like the last one.

12 CHAIRMAN SUZUKI: Okay.

13 Let's open the discussion on that issue  
14 then, if anyone would like to comment from the Panel?

15 DR. DEMKO: Dr. Demko. I would have one  
16 question. In all of these adverse reactions to  
17 periodontal dressings, were there all medicaments in  
18 there or was that just used as a physical barrier?

19 MS. BLACKWELL: The ones with the allergic  
20 reaction don't contain drug.

21 CHAIRMAN SUZUKI: Okay, any other comments?

22 Dr. O'Brien?

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1 DR. O'BRIEN: Yes. I have a concern about  
2 the ones that do not contain drugs that are sold over  
3 the counter, where patients frequently use these for  
4 self-medication for ulcers that they have in their  
5 mouth, usually will vary in origin, herpes, for  
6 example, and they don't do any harm, but they don't  
7 really help as a very effective similar medications  
8 with antiviral medications. So that, if it is sold  
9 over the counter, there should be a warning to the  
10 patient that this will not speed up the recovery of  
11 that ulcer of a viral nature, and they could get rapid  
12 relief by seeing their dentist or physician for  
13 appropriate medications that would, not only treat the  
14 ulcers, but actually prevent them at early stages.

15 MS. BLACKWELL: Well, the labeling,  
16 basically, is for any type of mouth irritation. So,  
17 the patient is probably not going to know what it came  
18 from in many cases, but the labeling does say not to  
19 use it more than a certain number of days, and if it's  
20 more than, you know, I think most of them say seven  
21 days, if it persists for more than seven days see your  
22 doctor or dentist. So, it's not specifically labeled

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1 for any particular type of ulcer, it's just,  
2 basically, if you -- because it's like a Band-Aid,  
3 that's the way they are labeled, it's similar to like  
4 an oral Band-Aid.

5 DR. O'BRIEN: Right, but you could help the  
6 patient by warning them if they have recurrence of  
7 these ulcers that they should see their dentist or  
8 physician, because the materials that don't have any  
9 medication in them, that there are very much more  
10 effective medications with -- materials with  
11 medications in them that the dentist and the physician  
12 can prescribe, even though they are told to see their  
13 -- don't use them over a certain period of time, but  
14 by that time the ulcer from the viral herpes infection  
15 would be gone probably anyway. So that, it would give  
16 patients information that the non-medicated substances  
17 have serious limits in terms of what infections  
18 patients could have.

19 MS. BLACKWELL: But, how is the patient  
20 going to know whether it applies to him, he doesn't  
21 know what caused his ulcer? So, if there's anything  
22 there about herpes, they won't know.

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1 DR. O'BRIEN: If they are repeated, not  
2 only if they last more than certain time, but if they  
3 have a repeated occurrence of these type of lesions.

4 MS. BLACKWELL: Okay, so you are saying --

5 DR. O'BRIEN: If they have repeated  
6 occurrences they should get a diagnosis.

7 MS. BLACKWELL: -- okay.

8 DR. O'BRIEN: Rather than just using the  
9 same useless type of material.

10 MS. BLACKWELL: So, in addition to saying  
11 if it persists for more than seven days see your  
12 physician, you think the labeling should also say --

13 DR. O'BRIEN: Repeated occurrence.

14 MS. BLACKWELL: -- if you have repeated  
15 occurrence of these type of mouth sores --

16 DR. O'BRIEN: Yes.

17 MS. BLACKWELL: -- to see your doctor or  
18 dentist.

19 DR. O'BRIEN: But, for more effective  
20 medication, in other words --

21 MS. BLACKWELL: Well, see the doctor or  
22 dentist, and we don't -- we can't presume what the

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1 doctor or dentist would give the patient.

2 CHAIRMAN SUZUKI: Stepping aside as chair,  
3 I'd like to make a comment also. I see this --  
4 personally, I see this classification of oral wound  
5 dressings is really analogous to the retraction cord  
6 model that we discussed this morning. I think a  
7 product that has drugs in it, like steroids for  
8 control of inflammation or immune reactions, or a pain  
9 medication to control localized pain, is quite  
10 different from a wound dressing that has nothing in it  
11 at all, to be merely protective.

12 Would Dr. Runner like to comment?

13 DR. RUNNER: I think maybe the word drug is  
14 throwing you for a loop here. I think the major drug  
15 we've seen is aloe vera. We are not talking about a  
16 wide variety of drugs that are not cleared for a  
17 specific oral wound indication.

18 If we were to see an oral wound dressing  
19 that would come in with an antibiotic or something  
20 else, it would definitely not be something that we are  
21 going to be looking at, it would be something that  
22 would be sent over the Drugs. It would be a new

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1 indication, et cetera.

2 We are talking about a set of hydrogels  
3 that are mostly over the counter, with aloe vera in  
4 non-therapeutic doses as the drug. But, it is a drug.

5 So, we are not talking about -- even I think the  
6 Orabase with Kenalog may have been pre-enactment and  
7 we never saw it, I think Drugs actually saw those  
8 products.

9 So, I think you can be assured that if  
10 there was a new entity placed in an oral wound  
11 dressing that it would definitely go to Drugs.

12 CHAIRMAN SUZUKI: So, you are saying we  
13 don't have to deliberate on that today, because that's  
14 separate? It will be flagged separately?

15 DR. RUNNER: Right, right.

16 I mean, if we were to see an oral wound  
17 dressing that would come in with a new drug, let's  
18 say, we would send the manufacturer a letter that  
19 says, outstanding drug issue, and we'd send it over to  
20 Drugs, because we wouldn't have any experience with  
21 that.

22 And, if it had a drug that was a known

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1 entity, we would also send it over to Drugs if it was  
2 in a therapeutic dose, we would also send it over to  
3 Drugs as a new delivery system for the drug. We are  
4 not in the -- the Devices Section is not in the  
5 business of reviewing drugs.

6 They are combination products because  
7 these kinds of dressings primarily act by their  
8 barrier function, and that's their primary mode of  
9 action, not the drug component, if there is a drug  
10 component.

11 CHAIRMAN SUZUKI: Okay.

12 Dr. Amar, did you have a question?

13 DR. AMAR: Yes.

14 CHAIRMAN SUZUKI: Okay.

15 DR. AMAR: So, basically, if I understand  
16 correctly, there's no possibility of drug abuse or  
17 excessive use by the public of this kind of dressing  
18 that would be over the counter.

19 DR. RUNNER: Right. I mean --

20 DR. AMAR: Us as the gatekeeper --

21 DR. RUNNER: -- right, aloe --

22 DR. AMAR: -- we'd like --

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1 DR. RUNNER: -- aloe and benzocaine are the  
2 two major drugs that we've seen, and those are already  
3 over the counter. We also get drug consult.

4 We are not talking about a wide variety of  
5 drugs in these dressings, and the drugs that are there  
6 have been in less than therapeutic levels.

7 CHAIRMAN SUZUKI: Okay, any other comments?

8 DR. RUNNER: Does that answer the question?

9 CHAIRMAN SUZUKI: Okay.

10 I believe we still need a motion to vote  
11 on whether or not to split this or whether or not we  
12 should keep it the way it is as presented.

13 Dr. Cochran?

14 DR. COCHRAN: I'll make the motion that we  
15 keep it together.

16 CHAIRMAN SUZUKI: Okay, is there a second?

17 DR. AMAR: I second the motion.

18 CHAIRMAN SUZUKI: Okay, discussion now?

19 Dr. Lin?

20 DR. LIN: I just want to comment. I think  
21 that you just mentioned this morning that we discussed  
22 this retraction cord, the reason we split it up are

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1 two different indications, that is the reason we split  
2 it. But, when we talk about wound dressing, that  
3 indication isn't exactly the same, it's not the same  
4 indication.

5 CHAIRMAN SUZUKI: Further discussion?

6 I will call the question then, all in  
7 favor of -- would you like to repeat the motion, Dr.  
8 Cochran?

9 DR. COCHRAN: The motion is to keep all  
10 these products as one category.

11 CHAIRMAN SUZUKI: All in favor of keeping  
12 the products in one category, just raise your right  
13 hand or say aye.

14 (Ayes.)

15 CHAIRMAN SUZUKI: Opposed?

16 Okay, it's unanimous we keep it as one  
17 classification.

18 Okay, if Ms. Shulman can proceed with the  
19 classification forms.

20 MS. SHULMAN: Thank you.

21 Okay, again, if you can place your name on  
22 the top of the sheet, and the date, and the generic

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1 type of device.

2 Okay, question one, is the device life-  
3 sustaining or life-supporting?

4 CHAIRMAN SUZUKI: I will go in alphabetical  
5 order. Dr. Cochran is off the hook since Dr. Amar is  
6 now with us.

7 DR. AMAR: Sorry for being late.

8 CHAIRMAN SUZUKI: I will begin with Dr.  
9 Salomon Amar to question number one?

10 DR. AMAR: No.

11 CHAIRMAN SUZUKI: Dr. Cochran?

12 DR. COCHRAN: No.

13 CHAIRMAN SUZUKI: Dr. O'Brien?

14 DR. O'BRIEN: No.

15 CHAIRMAN SUZUKI: Dr. Zero?

16 DR. ZERO: No.

17 CHAIRMAN SUZUKI: Dr. Zuniga?

18 DR. ZUNIGA: No.

19 CHAIRMAN SUZUKI: Representatives.

20 Ms. Howe?

21 MS. HOWE: No.

22 CHAIRMAN SUZUKI: Mr. Schechter?

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1 MR. SCHECHTER: No.

2 CHAIRMAN SUZUKI: Consultants.

3 Dr. Bakland?

4 DR. BAKLAND: No.

5 CHAIRMAN SUZUKI: Dr. Demko?

6 DR. DEMKO: No.

7 CHAIRMAN SUZUKI: Unanimous no.

8 MS. SHULMAN: Thank you.

9 Question two, is the device for a use  
10 which is of substantial importance in preventing  
11 impairment of human health?

12 CHAIRMAN SUZUKI: Okay.

13 Dr. Amar?

14 DR. AMAR: No.

15 CHAIRMAN SUZUKI: Dr. Cochran?

16 DR. COCHRAN: No.

17 CHAIRMAN SUZUKI: Dr. O'Brien?

18 DR. O'BRIEN: No.

19 CHAIRMAN SUZUKI: Dr. Zero?

20 DR. ZERO: No.

21 CHAIRMAN SUZUKI: Dr. Zuniga?

22 DR. ZUNIGA: No.

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1 CHAIRMAN SUZUKI: Ms. Howe?

2 MS. HOWE: No.

3 CHAIRMAN SUZUKI: Mr. Schechter?

4 MR. SCHECHTER: No.

5 CHAIRMAN SUZUKI: Dr. Bakland?

6 DR. BAKLAND: No.

7 CHAIRMAN SUZUKI: Dr. Demko?

8 DR. DEMKO: No.

9 CHAIRMAN SUZUKI: Unanimous no.

10 MS. SHULMAN: Thank you.

11 Question three, does the device present a  
12 potential unreasonable risk of illness or injury?

13 CHAIRMAN SUZUKI: Dr. Amar?

14 DR. AMAR: No.

15 CHAIRMAN SUZUKI: Dr. Cochran?

16 DR. COCHRAN: No.

17 CHAIRMAN SUZUKI: Dr. O'Brien?

18 DR. O'BRIEN: No.

19 CHAIRMAN SUZUKI: Dr. Zero?

20 DR. ZERO: No.

21 CHAIRMAN SUZUKI: Dr. Zuniga?

22 DR. ZUNIGA: No.

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1 CHAIRMAN SUZUKI: Representatives.

2 Ms. Howe?

3 MS. HOWE: No.

4 CHAIRMAN SUZUKI: Mr. Schechter?

5 MR. SCHECHTER: No.

6 CHAIRMAN SUZUKI: Consultants.

7 Dr. Bakland?

8 DR. BAKLAND: No.

9 CHAIRMAN SUZUKI: Dr. Demko?

10 DR. DEMKO: No.

11 CHAIRMAN SUZUKI: Okay, unanimous no.

12 MS. SHULMAN: Thank you.

13 Question four, did you answer yes to any  
14 of the above questions, the answer is no.

15 Then we go to item five, is there  
16 sufficient information to determine that general  
17 controls of Class I are sufficient to provide  
18 reasonable assurance of safety and effectiveness?

19 CHAIRMAN SUZUKI: Okay, beginning with Dr.  
20 Amar.

21 DR. AMAR: I would say yes.

22 CHAIRMAN SUZUKI: Dr. Cochran?

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1 DR. COCHRAN: No.

2 CHAIRMAN SUZUKI: Dr. O'Brien?

3 DR. O'BRIEN: Yes.

4 CHAIRMAN SUZUKI: Dr. Zero?

5 DR. ZERO: No.

6 CHAIRMAN SUZUKI: Dr. Zuniga?

7 DR. ZUNIGA: Yes.

8 CHAIRMAN SUZUKI: Representatives.

9 Ms. Howe?

10 MS. HOWE: No.

11 CHAIRMAN SUZUKI: Mr. Schechter?

12 MR. SCHECHTER: No.

13 CHAIRMAN SUZUKI: Consultants.

14 Dr. Bakland?

15 DR. BAKLAND: No.

16 CHAIRMAN SUZUKI: Dr. Demko?

17 DR. DEMKO: No.

18 CHAIRMAN SUZUKI: 3:2 yes, so Class I.

19 MS. SHULMAN: Okay, the answer to that is  
20 yes, classify in Class I.

21 DR. ZERO: Mr. Chairman, could we have a  
22 review of the voting again, please?

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1 CHAIRMAN SUZUKI: Okay.

2 Let's call for a revote. I'll begin again  
3 with Dr. Amar.

4 DR. AMAR: Yes.

5 CHAIRMAN SUZUKI: Dr. Cochran?

6 DR. COCHRAN: No.

7 CHAIRMAN SUZUKI: Dr. O'Brien?

8 DR. O'BRIEN: Yes.

9 CHAIRMAN SUZUKI: Dr. Zero?

10 DR. ZERO: No.

11 CHAIRMAN SUZUKI: Dr. Zuniga?

12 DR. ZUNIGA: No.

13 CHAIRMAN SUZUKI: The vote is 3:2 no.

14 MS. SHULMAN: So that you know, I just want  
15 to clarify for everyone just on the same page here.  
16 If you are voting yes to this question then you are  
17 voting for it to be a Class I device. If you are  
18 voting no, you are voting for it to either be a Class  
19 II or a Class III device.

20 CHAIRMAN SUZUKI: Do the Panel members  
21 understand that?

22 DR. COCHRAN: And, the recommendation was

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1 by the FDA was Class II.

2 MS. SHULMAN: Correct.

3 CHAIRMAN SUZUKI: So, everybody understands  
4 that. Okay. That changes it to a no then.

5 MS. SHULMAN: Okay.

6 Question five is no.

7 Question six, is there sufficient  
8 information to establish special controls in addition  
9 to general controls to provide reasonable assurance of  
10 safety and effectiveness?

11 CHAIRMAN SUZUKI: And, the recommendation  
12 was for the guidance document, is that correct?

13 MS. SHULMAN: Well, first, we have to vote  
14 to see if there's sufficient information to establish  
15 that special controls.

16 CHAIRMAN SUZUKI: Okay.

17 MS. SHULMAN: Because if the answer to that  
18 would be no, then we are going to PMA Class III.

19 CHAIRMAN SUZUKI: Okay, is there sufficient  
20 information to establish special controls?

21 Dr. Amar?

22 DR. AMAR: Yes.

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1 CHAIRMAN SUZUKI: Dr. Cochran?

2 DR. COCHRAN: Yes.

3 CHAIRMAN SUZUKI: Dr. O'Brien?

4 DR. O'BRIEN: Yes.

5 CHAIRMAN SUZUKI: Dr. Zero?

6 DR. ZERO: Yes.

7 CHAIRMAN SUZUKI: Dr. Zuniga?

8 DR. ZUNIGA: Yes.

9 CHAIRMAN SUZUKI: Representatives.

10 Ms. Howe?

11 MS. HOWE: Yes.

12 CHAIRMAN SUZUKI: Mr. Schechter?

13 MR. SCHECHTER: Yes.

14 CHAIRMAN SUZUKI: Consultants.

15 Dr. Bakland?

16 DR. BAKLAND: Yes.

17 CHAIRMAN SUZUKI: Dr. Demko?

18 DR. DEMKO: Yes.

19 CHAIRMAN SUZUKI: It's unanimous 5:0.

20 MS. SHULMAN: Okay, thank you.

21 Seven, is there sufficient information to  
22 establish special controls, if there is sufficient

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1 information to establish special controls, identify  
2 below the special controls needed to provide such  
3 assurance. Again, the recommendation from the  
4 division was the guidance document, but you are  
5 certainly able to check any of the others or list any  
6 that you may want added.

7 CHAIRMAN SUZUKI: Okay, before voting,  
8 would the Panel like any further discussion?

9 DR. O'BRIEN: One question now.

10 CHAIRMAN SUZUKI: Dr. O'Brien?

11 DR. O'BRIEN: This is now because of the  
12 previous votes, this is going to be a Class II then?

13 MS. SHULMAN: Correct.

14 DR. O'BRIEN: Okay.

15 CHAIRMAN SUZUKI: Okay, any further  
16 discussion? Questions?

17 Okay, Dr. Amar?

18 DR. AMAR: Guidance document and device  
19 tracking.

20 CHAIRMAN SUZUKI: Dr. Cochran?

21 DR. COCHRAN: Guidance document.

22 CHAIRMAN SUZUKI: Dr. O'Brien?

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1 DR. O'BRIEN: Guidance document.

2 CHAIRMAN SUZUKI: Dr. Zero?

3 DR. ZERO: Guidance document.

4 CHAIRMAN SUZUKI: Dr. Zuniga?

5 DR. ZUNIGA: Guidance document.

6 CHAIRMAN SUZUKI: Representatives.

7 Ms. Howe?

8 MS. HOWE: Guidance document.

9 CHAIRMAN SUZUKI: Mr. Schechter?

10 MR. SCHECHTER: Guidance document.

11 CHAIRMAN SUZUKI: Consultants.

12 Dr. Bakland?

13 DR. BAKLAND: Guidance document.

14 CHAIRMAN SUZUKI: Dr. Demko?

15 DR. DEMKO: Guidance document.

16 CHAIRMAN SUZUKI: Okay, 4:1 guidance  
17 document.

18 MS. SHULMAN: Thank you.

19 Okay, question eight and nine we may skip,  
20 because it all has to do with performance standards,  
21 and ten we may skip because it's only for Class III  
22 devices.

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1                   Question 11, identify the needed  
2 restrictions. Now, correct me if I'm wrong, this was  
3 both an OTC and prescription device? So again, there  
4 would be both the first one, only upon the written or  
5 oral authorization of a practitioner licensed by law  
6 to administer the use, and in other we'll also put  
7 OTC.

8                   You may add any of the other needed  
9 restrictions if you think they are needed.

10                  CHAIRMAN SUZUKI: Okay, questions or  
11 discussion on this before we vote?

12                  Dr. O'Brien?

13                  DR. O'BRIEN: Yes. For the over-the-  
14 counter labels or directions, that the patient be  
15 warned that they should see a physician or a dentist  
16 if they have repeated infections or repeated ulcers  
17 for proper diagnosis, not only if it lasts for seven  
18 or eight days, to warn them that they may have one of  
19 these materials that doesn't contain helpful  
20 medication, they should get a diagnosis if they have  
21 repeated occurrences.

22                  MS. SHULMAN: Thank you, that will be

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1 noted.

2 CHAIRMAN SUZUKI: Okay.

3 Any other comments or questions?

4 If not, I'd like to call upon Dr. Amar  
5 first.

6 DR. AMAR: Only upon written and oral  
7 authorization over the counter.

8 CHAIRMAN SUZUKI: First box, okay.

9 CHAIRMAN SUZUKI: Dr. Cochran?

10 DR. COCHRAN: First and last box.

11 CHAIRMAN SUZUKI: Okay, and what is in the  
12 last box?

13 DR. COCHRAN: OTC.

14 CHAIRMAN SUZUKI: Okay. Dr. Amar also  
15 indicates first and last box, correction.

16 Dr. O'Brien?

17 DR. O'BRIEN: First and last box, OTC.

18 CHAIRMAN SUZUKI: Okay. Dr. Zero?

19 DR. ZERO: First and last box, OTC.

20 CHAIRMAN SUZUKI: Dr. Zuniga?

21 DR. ZUNIGA: First and last box, OTC.

22 CHAIRMAN SUZUKI: Representatives.

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1 Ms. Howe?

2 MS. HOWE: First and last box, OTC.

3 CHAIRMAN SUZUKI: Mr. Schechter?

4 MR. SCHECHTER: First and last box, OTC  
5 use.

6 CHAIRMAN SUZUKI: Okay, consultants.

7 Dr. Bakland?

8 DR. BAKLAND: First and last box, and OTC.

9 CHAIRMAN SUZUKI: Dr. Demko?

10 DR. DEMKO: First and last box, OTC.

11 CHAIRMAN SUZUKI: Okay, it's unanimous  
12 first box and the last box, other, designating OTC.

13 MS. SHULMAN: Thank you.

14 Okay, now we may move on to the  
15 supplemental data sheet.

16 Supplemental data sheet, again, your names  
17 on the top, please, the generic type of device, the  
18 Advisory Panel, and is device an implant, no.

19 So, we'll go to number four, indications  
20 for use. Again, that's on the screen, the indications  
21 for use, and you can make any corrections or comments,  
22 or vote for as it was presented in the Panel meeting.

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1 CHAIRMAN SUZUKI: Excuse me, what was Dr.  
2 O'Brien's suggestion on this point?

3 DR. O'BRIEN: That there be a warning in  
4 the OTC materials that patients should seek diagnosis  
5 by a physician or dentist if they have repeated  
6 lesions.

7 MS. SHULMAN: And, I believe for that, this  
8 will be the general indication for use, and Dr.  
9 O'Brien's comments will go under number nine, for any  
10 needed restrictions.

11 CHAIRMAN SUZUKI: Okay.

12 MS. SHULMAN: So, if there are no comments  
13 on the indications for use, you can write as presented  
14 in the Panel meeting.

15 Number five, the identification of risks  
16 to health presented by the device. Again, we have the  
17 overhead that was presented during the Panel meeting,  
18 or you can make any changes, or comments, or  
19 suggestions.

20 CHAIRMAN SUZUKI: Okay, Dr. Amar has a  
21 question.

22 DR. AMAR: Can I propose to add the

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1 allergic reaction, the potential of having an allergic  
2 reaction?

3 MS. SHULMAN: Certainly, for the identified  
4 risk of allergic reactions, did you have -- okay,  
5 Angela is saying that's part of adverse tissue  
6 reaction, so the labeling would be the mitigation to  
7 address that risk.

8 DR. AMAR: I think in terms of risk to  
9 health allergic reactions fall within that, that  
10 category.

11 MS. SHULMAN: Okay, thank you.

12 CHAIRMAN SUZUKI: In other words --

13 DR. AMAR: Particularly, in light of the  
14 fact that I heard that there were some systemic  
15 reactions, the local allergic reaction could become a  
16 systemic reaction, then it becomes a health  
17 recommendation.

18 CHAIRMAN SUZUKI: So, Dr. Amar is  
19 suggesting a further qualification of adverse tissue  
20 reaction to include --

21 DR. AMAR: Potential --

22 CHAIRMAN SUZUKI: -- allergy, immunologic.

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1 DR. AMAR: -- yeah.

2 DR. COCHRAN: My only problem with that is  
3 that it's a little bit unconfirmed at this point. I  
4 mean, I think I would want, before you put that on the  
5 label, I think I'd want a little more documentation,  
6 and it bothers me a little bit that most of those came  
7 out of one practice. Without sufficient documentation  
8 that it was truly an allergic reaction, I'm not sure I  
9 would want to go to the point where we'd have to put  
10 that on every product that's out there.

11 DR. AMAR: I think they just --

12 CHAIRMAN SUZUKI: Dr. Amar is speaking now.

13 DR. AMAR: -- if I can just answer that,  
14 that doesn't hurt to put the allergic reaction, to be  
15 honest with you. It prevents any potential  
16 ramification. I'm not sure that there are some  
17 serious ramifications as to having that into the  
18 labeling, and yet it prevents if any allergic -- I  
19 could envision even potential allergic reaction to the  
20 inert material.

21 MS. BLACKWELL: Well, may I make a comment,  
22 please? We can put information about allergies on

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1 there, but there's no ingredient labeling on these  
2 products. So, even if the patient is allergic to it,  
3 the dentist has no idea what it is they are allergic  
4 to.

5 CHAIRMAN SUZUKI: Dr. Runner?

6 MS. BLACKWELL: A general caution, you  
7 know, that's why labeling is here as a mitigation,  
8 because the patient could have an adverse reaction  
9 which could be an allergic reaction or something else.  
10 You know, if you consider the allergic reaction to be  
11 a systemic reaction.

12 CHAIRMAN SUZUKI: Dr. Runner.

13 DR. RUNNER: Just one other comment, this  
14 isn't specifically -- these are just identified risks  
15 that FDA would be looking for mitigations for, this  
16 isn't necessarily in the labeling. So, you certainly  
17 could put the potential for allergic reaction here,  
18 and we would be looking for biocompatibility data  
19 labeling if there was some known allergenic was put in  
20 the product, so that we would look for ways to  
21 mitigate that risk, it wouldn't necessarily have to be  
22 in the actual labeling of the product.

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1 CHAIRMAN SUZUKI: Okay.

2 MS. SHULMAN: Okay, with those additions  
3 was there anything else that should be added to number  
4 five, the identification of risks?

5 Okay, thank you.

6 Number six, the classification is --

7 CHAIRMAN SUZUKI: Dr. Demko -- excuse me --

8 MS. SHULMAN: I'm sorry.

9 CHAIRMAN SUZUKI: -- Dr. Demko has a  
10 comment.

11 DR. DEMKO: I just want to ask one  
12 question. Why is it that the ingredients are not  
13 listed? I mean, is that true across the board on  
14 these?

15 (No audible response.)

16 DR. DEMKO: Okay.

17 DR. RUNNER: Because devices do not have  
18 ingredient labeling in our regulations.

19 DR. DEMKO: Okay.

20 DR. RUNNER: We cannot require that.

21 CHAIRMAN SUZUKI: Okay, Ms. Shulman?

22 MS. SHULMAN: Question six, classification

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1 is Class II. Again, the priority high, medium or low,  
2 how fast would you like us to write the proposed  
3 regulation and get the comments and go out with the  
4 final reg?

5 CHAIRMAN SUZUKI: Okay.

6 To answer this question I'll begin with  
7 Dr. Amar, low, medium or high priority?

8 DR. AMAR: Medium.

9 CHAIRMAN SUZUKI: Medium.

10 Dr. Cochran?

11 DR. COCHRAN: Low.

12 CHAIRMAN SUZUKI: Dr. O'Brien?

13 DR. O'BRIEN: Medium.

14 CHAIRMAN SUZUKI: Dr. Zero?

15 DR. ZERO: Low.

16 CHAIRMAN SUZUKI: Dr. Zuniga?

17 DR. ZUNIGA: Low.

18 CHAIRMAN SUZUKI: Representatives.

19 Ms. Howe?

20 MS. HOWE: Medium.

21 CHAIRMAN SUZUKI: Mr. Schechter?

22 MR. SCHECHTER: As with all my choices

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1 today in this category, I'm assuming that since these  
2 products have been unclassified for 30 years that  
3 products haven't been held up because they are  
4 unclassified. So, given that they are not being held  
5 up, I'm voting low again.

6 CHAIRMAN SUZUKI: Okay, consultants.

7 Dr. Bakland?

8 DR. BAKLAND: Low.

9 CHAIRMAN SUZUKI: Dr. Demko?

10 DR. DEMKO: Low.

11 CHAIRMAN SUZUKI: Okay, it's 3:2 in favor  
12 of low.

13 MS. SHULMAN: Thank you.

14 Question seven we may skip because the  
15 device is not an implant or life-sustaining or life-  
16 supporting.

17 Number eight, the summary of information  
18 including clinical experience and judgment upon which  
19 the classification recommendation was based, we may  
20 say as presented in the Panel meeting or you may add  
21 anything else you wish to at this time.

22 If there are no comments, we'll go on to

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1 number nine, the identification of any needed  
2 restrictions on the use of the device, for example,  
3 special labeling, banning or prescription use, we  
4 already know it's prescription and over the counter,  
5 and we do have the other labeling restrictions or  
6 labeling concerns that were addressed before in the  
7 Panel transcript, so is there anything else that  
8 should be added at this time?

9 CHAIRMAN SUZUKI: Any other comments from  
10 the Panel?

11 MS. SHULMAN: Thank you.

12 Question ten we may skip because that's  
13 Class I devices.

14 Question 11, if the device is recommended  
15 for Class II, recommend whether FDA should exempt it  
16 from pre-market notification.

17 CHAIRMAN SUZUKI: Okay, any questions or  
18 discussion on this before we take a vote?

19 Okay, Dr. Amar?

20 DR. AMAR: Exempt.

21 CHAIRMAN SUZUKI: Dr. Cochran?

22 DR. COCHRAN: Not exempt.

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1 CHAIRMAN SUZUKI: Dr. O'Brien?

2 DR. O'BRIEN: Not exempt.

3 CHAIRMAN SUZUKI: Dr. Zero?

4 DR. ZERO: Not exempt.

5 CHAIRMAN SUZUKI: Dr. Zuniga?

6 DR. ZUNIGA: Not exempt.

7 CHAIRMAN SUZUKI: Representatives.

8 Ms. Howe?

9 MS. HOWE: Not exempt.

10 CHAIRMAN SUZUKI: Mr. Schechter?

11 MR. SCHECHTER: Not exempt.

12 CHAIRMAN SUZUKI: Consultants.

13 Dr. Bakland?

14 DR. BAKLAND: Not exempt.

15 CHAIRMAN SUZUKI: Dr. Demko?

16 DR. DEMKO: Not exempt.

17 CHAIRMAN SUZUKI: Okay, 4:1 in favor of

18 non-exempt.

19 MS. SHULMAN: Thank you.

20 Question 12, any other existing standards

21 that would be applicable to the device or the device

22 sub-assembly components, the device materials, besides

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1 the ones that were listed in the presentation.

2 CHAIRMAN SUZUKI: Any questions, comments?

3 DR. COCHRAN: A comment is that certainly  
4 in periodontics today we don't use as many dressings  
5 as we used to, so it's kind of interesting that we are  
6 classifying this now on a product that we hardly use  
7 anymore.

8 CHAIRMAN SUZUKI: Okay.

9 MS. SHULMAN: Okay.

10 CHAIRMAN SUZUKI: Now, at this point do we  
11 vote on the entire document?

12 MS. SHULMAN: Correct, vote on the entire  
13 document as filled out as a Class II device requiring  
14 pre-market notification, subject to the special  
15 control guidance document.

16 CHAIRMAN SUZUKI: Okay. I'll call first on  
17 Dr. Amar on the supplemental data sheet.

18 DR. AMAR: What do we --

19 CHAIRMAN SUZUKI: In favor or opposed.

20 DR. AMAR: In favor.

21 CHAIRMAN SUZUKI: Dr. Cochran?

22 DR. COCHRAN: In favor.

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1 CHAIRMAN SUZUKI: Dr. O'Brien?

2 DR. O'BRIEN: In favor.

3 CHAIRMAN SUZUKI: Dr. Zero?

4 DR. ZERO: Approve.

5 CHAIRMAN SUZUKI: Dr. Zuniga?

6 DR. ZUNIGA: In favor..

7 CHAIRMAN SUZUKI: Representatives.

8 Ms. Howe?

9 MS. HOWE: In favor.

10 CHAIRMAN SUZUKI: Mr. Schechter?

11 MR. SCHECHTER: Approve.

12 CHAIRMAN SUZUKI: Dr. Bakland?

13 DR. BAKLAND: Approve.

14 CHAIRMAN SUZUKI: Dr. Demko?

15 DR. DEMKO: Approve.

16 CHAIRMAN SUZUKI: Unanimous.

17 MS. SHULMAN: Thank you very much.

18 CHAIRMAN SUZUKI: Next on our agenda is  
19 FDA's presentation of the proposed classification of  
20 dental electrical anesthesia, and I'd like to call on  
21 Mr. Andrew Steen, Mechanical Engineer for FDA, to  
22 present.

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1 MR. STEEN: Thank you, good afternoon.

2 Once again, my name is Andrew Steen, and  
3 today I'll be presenting on the proposed  
4 classification for dental electrical anesthesia  
5 devices. I will cover a brief description and history  
6 of this device. I will cover the medical device  
7 reports and risks to health presented by this device.  
8 I will discuss any applicable standards. And  
9 finally, I will give the proposed classification.

10 A dental electrical anesthesia device  
11 provides an electrical current to the tissue  
12 surrounding the oral environment by direct electrode  
13 connection for the purpose of creating an analgesic  
14 and/or anesthetic effect during dental procedures.

15 This device is connected to the patient in  
16 the dental office, just prior to the beginning of the  
17 procedure, and removed just after the procedure has  
18 been completed. It is intended for use in place of or  
19 in conjunction with injectable anesthesia.

20 These devices were not classified at the  
21 time of the Medical Device Amendments of 1976, and  
22 there's only one pre-amendment device that has both

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1 the same indications for use, that is, anesthesia or  
2 analgesia, and the mode of operation, which is  
3 electrical nerve stimulation.

4 The dental electrical anesthesia devices  
5 are currently regulated via the pre-market  
6 notification 510(k) process. To date, we have cleared  
7 15 of these devices, and today the agency is seeking  
8 the Panel's input on classification.

9 In order to assess the potential risks  
10 associated with the use of this device, the FDA  
11 reviewed the adverse events reports contained in the  
12 on-line medical device report database. There were a  
13 total of nine, four involved nerve damage, three  
14 involved burns to the cutaneous area under the  
15 electrode pad, one involved an adverse tissue reaction  
16 below the electrode pad, and one involved a seizure.

17 The risk to health for dental electrical  
18 anesthesia devices were assessed by the review of the  
19 adverse events, published literature, and the 510(k)'s  
20 cleared devices. This table identifies those risks.  
21 Thermal and nerve damage, which is burns, trauma to  
22 the skin or surrounding nerves, could be mitigated by

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1 electrical safety testing. For example, the voluntary  
2 standard IEC 60601, and proper labeling. Device  
3 failure, that is, circuit failure or power outage,  
4 electrical shock, or a patient who is unresponsive to  
5 the treatment, could also be mitigated by electrical  
6 safety testing, from again IEC 60601 and proper  
7 labeling. Cross contamination, that is the improper  
8 sterilization of reusable electrode pads, could be  
9 mitigated by reprocessing instructions, such as ISO  
10 11134. Adverse tissue reactions, allergic reactions  
11 to the electrode pad, could be mitigated by  
12 biocompatibility testing from the voluntary standard  
13 ISO 10993 or ISO 7405. Electromagnetic interference,  
14 such as device interaction with a pacemaker, could be  
15 covered by electromagnetic compatibility, which is,  
16 once again, in IEC 60601, and proper labeling.

17 This device is intended to be used by a  
18 dental professional, and, therefore, improper use  
19 would be mitigated by detailed instructions for use  
20 and prescription use only.

21 Along with the other general ISO standards  
22 for sterility, biocompatibility, and electromagnetic

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1 compatibility, I'd like to point out that there is a  
2 standard that deals directly with these devices, the  
3 voluntary standard IEC 60601-2-10 contains  
4 requirements for safety of nerve and muscle  
5 stimulators.

6 And so finally, the FDA proposes to  
7 identify a dental electrical anesthesia device as  
8 intended to provide an electrical current to the oral  
9 environment by direct electrode connection to the  
10 tissue for the purpose of creating an analgesic or  
11 anesthetic effect during dental procedures. This  
12 would be classified as a Class II, special controls,  
13 and those special controls employed would be a  
14 detailed guidance document addressing the risks to  
15 health and mitigations for those risks.

16 Thank you for your time.

17 CHAIRMAN SUZUKI: Okay, does the Panel have  
18 any questions on this presentation?

19 Ms. Howe?

20 MS. HOWE: Is there any special training  
21 that dentists are required to have to use these, or is  
22 it just assumed that their sales rep instructs them?

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1 MR. STEEN: None that I am aware of within  
2 our standards or our guidance, so it would be just  
3 what the sales rep trains the doctor. I am unfamiliar  
4 with dental schools, so if someone has an idea or  
5 learned about this, please let me know.

6 CHAIRMAN SUZUKI: Other questions,  
7 comments?

8 Dr. O'Brien?

9 DR. O'BRIEN: Yes.

10 What's the range of voltages that these  
11 deliver to the patient?

12 MR. STEEN: I don't know.

13 DR. O'BRIEN: I mean, are they low voltage  
14 or high voltage?

15 MR. STEEN: They are low voltage. They  
16 have been -- we get a consult from another branch that  
17 does a lot of TENS work, and they are low voltage.

18 DR. O'BRIEN: What is the evidence that  
19 they deliver sufficient anesthesia as compared to  
20 other types of anesthesia, removing the suggestion is  
21 there evidence of how well they work?

22 CHAIRMAN SUZUKI: Okay, Dr. Runner?

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1 DR. RUNNER: Maybe there could be some  
2 comments from the other dental school faculty. I was  
3 never even taught dental electrical anesthesia in  
4 dental school. I think it probably is not a widely  
5 used phenomenon in dentistry. However, there are some  
6 dentists who would utilize these devices.

7 CHAIRMAN SUZUKI: I'll comment on the three  
8 or four dental schools that I've been involved in, but  
9 I'd like to solicit my other Panel members first.  
10 Other dental school faculty here.

11 Dr. Bakland?

12 DR. BAKLAND: If I may ask a question  
13 first. In regards to the medical devices, the  
14 regulations for TENS, for those, are they similar to  
15 what is being proposed for the dental devices?

16 MR. STEEN: Correct.

17 DR. BAKLAND: So, it would be comparable.

18 I will admit that 40 years ago when I took  
19 my residency electro anesthesia was my research  
20 project, and it was interesting to work with that, and  
21 it does, in fact, properly delivered will in fact  
22 inhibit the flow of impulses in the nerve.

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1 CHAIRMAN SUZUKI: Okay.

2 Dr. Amar?

3 DR. AMAR: In the adverse reactions again,  
4 nerve tissue damage, would you comment as to whether,  
5 was it reversible or not reversible, or we don't even  
6 know?

7 DR. AMAR: We don't know. The medical  
8 device reports were not very clear. One report was a  
9 blurred vision in the right eye after use of the  
10 device, but it was noted that the patient had a pre-  
11 existing condition which may have caused that. Another  
12 report was a throbbing of the tooth after the event,  
13 but it doesn't say what the dental procedure was, so  
14 it may have just been caused from the dental  
15 procedure. They are not very clear, they are not very  
16 complete. A lot of them are three or four sentence  
17 reports that just say something happened.

18 CHAIRMAN SUZUKI: Okay.

19 Dr. O'Brien?

20 DR. O'BRIEN: What about published clinical  
21 studies of the effects of these devices?

22 MR. STEEN: Of the 510(k)s that I've gone

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1 through, they all contain one report or another that  
2 said they worked. I'm not an expert in that area, so  
3 I can't comment on that.

4 DR. O'BRIEN: But, shouldn't there be  
5 strong clinical evidence that they work?

6 CHAIRMAN SUZUKI: Dr. Runner?

7 DR. RUNNER: I'm sorry, these are devices  
8 that are pre-amendment, therefore, they were on the  
9 market prior to the 1976 device amendments, therefore,  
10 they were grandfathered in. So, therefore, if another  
11 manufacturer comes to market with a similar device, in  
12 so many words, unless there was some major safety  
13 issues relative to these devices we would find them  
14 equivalent to pre-amendments devices, and those  
15 reports don't seem to compare to the potential number  
16 of uses to tip the scales in terms of safety as far as  
17 we know at this time.

18 CHAIRMAN SUZUKI: And, to answer one of Mr.  
19 Steen's original questions, I'm on the faculty of four  
20 dental schools, and I'm not aware that this procedure  
21 is taught in our anesthesia departments.

22 MR. STEEN: Thank you.

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1 CHAIRMAN SUZUKI: Any other comments?

2 DR. ZERO: I'd like to add one.

3 CHAIRMAN SUZUKI: I'm sorry, I didn't see  
4 you.

5 Dr. Zero?

6 DR. ZERO: The Panel does not have to  
7 concern itself with the fact that there is -- we are  
8 not being presented with any clinical, well-controlled  
9 evidence that they are effective?

10 CHAIRMAN SUZUKI: Efficacy.

11 DR. ZERO: Efficacy, I'm dealing with the  
12 efficacy side, instead of the safety side.

13 CHAIRMAN SUZUKI: Okay, Dr. Runner?

14 DR. RUNNER: You could certainly make the  
15 recommendation that we ask for some efficacy data. I  
16 don't know that the law would allow us to not approve  
17 a device for marketing, save any major safety issues,  
18 because it was on the market prior to '76 and was  
19 grandfathered in. That's the way our law works at  
20 this point in time.

21 CHAIRMAN SUZUKI: Pre May 28, 1976.

22 DR. RUNNER: So, it was a grandfathered

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1 device, unless we have some significant information  
2 that the safety of the device is in question. It  
3 would be pretty hard for us to go back and take them  
4 off the market.

5 DR. ZERO: But, how can we make a good  
6 judgment of the safety side of it without  
7 understanding. Everything is as risk/benefit analysis  
8 in my mind, with any device, so if we don't have any  
9 information on the efficacy side, even a minor risk to  
10 me would be too much.

11 DR. RUNNER: Well, you certainly -- I think  
12 in your position on a classification panel you can  
13 certainly make your concerns known in the  
14 questionnaire, and if you have strong desires to have  
15 some additional information available in the 510(k)s  
16 we certainly could attempt to develop a guidance  
17 document that would look at some of these issues.

18 I just can't say that if we were  
19 challenged, in terms of asking for that information,  
20 whether that would stand up because of it's pre-  
21 amendment status. That's why, I'm not trying to  
22 excuse the lack of data, it's just unfortunate the way

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1 the law works.

2 CHAIRMAN SUZUKI: Okay.

3 Any other comments, questions, for Mr.  
4 Steen?

5 Okay, thank you.

6 MR. STEEN: Thank you.

7 CHAIRMAN SUZUKI: We now have an open  
8 comment session regarding the proposed classification  
9 of dental electrical anesthesia. I would like to ask  
10 if there's anyone in the audience who wishes to  
11 address the Panel, please approach and identify  
12 yourself for the record.

13 Okay, seeing none, I'd like to ask Ms.  
14 Shulman to lead us.

15 Oh, one question.

16 DR. COCHRAN: I'd like to make a comment,  
17 that although I understand that this might not have a  
18 lot of evidence to support it, it is something that  
19 has been studied and has been available for some time.

20 And, I kind of put it in the group of the  
21 periodontal wound dressing as well, whether that's  
22 very efficacious or not for the patient we may dispute

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1 that. But, speaking from the consumer advocate side,  
2 I'd hate for us to limit something that some dentists  
3 might feel is an important tool in their  
4 armamentarium.

5 CHAIRMAN SUZUKI: Okay, thank you, Dr.  
6 Cochran.

7 DR. BAKLAND: May I add to that comment?

8 CHAIRMAN SUZUKI: Dr. Bakland?

9 DR. BAKLAND: Probably the biggest  
10 disadvantage with electro anesthesia is that it's  
11 unpredictable, and it tends to come in cycles. And,  
12 if you look at it historically, it goes back to even  
13 before chemical anesthesia came in, and was even tried  
14 for general anesthesia at one point. And, of course,  
15 that had much higher risks, but at least in my  
16 observation of local electro anesthesia it's mostly  
17 ineffective in most cases. There is some help with it  
18 in some instances, but as a general rule it isn't  
19 something that I think most dentists will run out and  
20 buy, because the success rate just isn't there.

21 CHAIRMAN SUZUKI: Okay, thank you, Dr.  
22 Bakland.

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1 Any other comments?

2 Okay, Ms. Shulman?

3 MS. SHULMAN: Okay, thank you.

4 Again, one more time, please place your  
5 name, Panel, the generic type of device, and the date  
6 on the top of the sheet.

7 Okay, question number one, is the device  
8 life-sustaining or life-supporting?

9 CHAIRMAN SUZUKI: Okay, I'll poll the  
10 panel, beginning first with Dr. Amar?

11 DR. AMAR: No.

12 CHAIRMAN SUZUKI: Dr. Cochran?

13 DR. COCHRAN: No.

14 CHAIRMAN SUZUKI: Dr. O'Brien?

15 DR. O'BRIEN: No.

16 CHAIRMAN SUZUKI: Dr. Zero?

17 DR. ZERO: No.

18 CHAIRMAN SUZUKI: Dr. Zuniga?

19 DR. ZUNIGA: No.

20 CHAIRMAN SUZUKI: Representatives.

21 Ms. Howe?

22 MS. HOWE: No.

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1 CHAIRMAN SUZUKI: Mr. Schechter?

2 MR. SCHECHTER: No.

3 CHAIRMAN SUZUKI: Consultants.

4 Dr. Bakland?

5 DR. BAKLAND: No.

6 CHAIRMAN SUZUKI: Dr. Demko?

7 DR. DEMKO: No.

8 CHAIRMAN SUZUKI: Unanimous no.

9 MS. SHULMAN: Thank you.

10 Number two, is the device for use which is  
11 of substantial importance in preventing impairment of  
12 human health?

13 CHAIRMAN SUZUKI: Okay, beginning with Dr.  
14 Amar?

15 DR. AMAR: No.

16 CHAIRMAN SUZUKI: Dr. Cochran?

17 DR. COCHRAN: No.

18 CHAIRMAN SUZUKI: Dr. O'Brien?

19 DR. O'BRIEN: No.

20 CHAIRMAN SUZUKI: Dr. Zero?

21 DR. ZERO: No.

22 CHAIRMAN SUZUKI: Dr. Zuniga?

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1 DR. ZUNIGA: No.

2 CHAIRMAN SUZUKI: Representatives.

3 Ms. Howe?

4 MS. HOWE: No.

5 CHAIRMAN SUZUKI: Mr. Schechter?

6 MR. SCHECHTER: No.

7 CHAIRMAN SUZUKI: Consultants.

8 Dr. Bakland?

9 DR. BAKLAND: No.

10 CHAIRMAN SUZUKI: Dr. Demko?

11 CHAIRMAN SUZUKI: Unanimous no.

12 MS. SHULMAN: Thank you.

13 Number three, does the device present a  
14 potential unreasonable risk of illness or injury?

15 CHAIRMAN SUZUKI: Okay, Dr. Amar?

16 DR. AMAR: No.

17 CHAIRMAN SUZUKI: Dr. Cochran?

18 DR. COCHRAN: No.

19 CHAIRMAN SUZUKI: Dr. O'Brien?

20 DR. O'BRIEN: No.

21 CHAIRMAN SUZUKI: Dr. Zero?

22 DR. ZERO: No.

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1 CHAIRMAN SUZUKI: Dr. Zuniga?

2 DR. ZUNIGA: No.

3 CHAIRMAN SUZUKI: Representatives.

4 Ms. Howe?

5 MS. HOWE: Yes. My concern is based on the  
6 nerve damage, and not knowing if, in fact, that was  
7 irreversible damage. I'm not sure if anybody wants to  
8 comment on that or bring that up, but that's a  
9 concern.

10 CHAIRMAN SUZUKI: Okay.

11 Mr. Schechter?

12 MR. SCHECHTER: No.

13 CHAIRMAN SUZUKI: Consultants.

14 Dr. Bakland?

15 DR. BAKLAND: No.

16 CHAIRMAN SUZUKI: Dr. Demko?

17 DR. DEMKO: No.

18 CHAIRMAN SUZUKI: Unanimous no of the  
19 voting members. One concern of the consumer  
20 representatives.

21 MS. SHULMAN: Thank you, and I think we can  
22 come back and address that concern, too. Thank you.

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1                   Number four, did we answer yes to any of  
2 the above questions, the answer is no.

3                   Number five, is there sufficient  
4 information to determine that general controls, those  
5 are Class I controls, are sufficient to provide  
6 reasonable assurance of safety and effectiveness?

7                   CHAIRMAN SUZUKI: Okay, beginning with Dr.  
8 Amar?

9                   DR. AMAR: No.

10                  CHAIRMAN SUZUKI: Dr. Cochran?

11                  DR. COCHRAN: No.

12                  CHAIRMAN SUZUKI: Dr. O'Brien?

13                  DR. O'BRIEN: No.

14                  CHAIRMAN SUZUKI: Dr. Zero?

15                  DR. ZERO: No.

16                  CHAIRMAN SUZUKI: Dr. Zuniga?

17                  DR. ZUNIGA: No.

18                  CHAIRMAN SUZUKI: Representatives.

19                  Ms. Howe?

20                  MS. HOWE: No.

21                  CHAIRMAN SUZUKI: Mr. Schechter?

22                  MR. SCHECHTER: No.

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1 CHAIRMAN SUZUKI: Consultants.

2 Dr. Bakland?

3 DR. BAKLAND: No.

4 CHAIRMAN SUZUKI: Dr. Demko?

5 DR. DEMKO: No.

6 CHAIRMAN SUZUKI: Okay, unanimous no.

7 MS. SHULMAN: Thank you.

8 Question number six, is there sufficient  
9 information to establish special controls in addition  
10 to the general controls to provide reasonable  
11 assurance of safety and effectiveness?

12 CHAIRMAN SUZUKI: Okay, Dr. Amar?

13 DR. AMAR: No.

14 CHAIRMAN SUZUKI: Dr. Cochran?

15 DR. COCHRAN: Yes.

16 CHAIRMAN SUZUKI: Dr. O'Brien?

17 DR. O'BRIEN: Yes.

18 CHAIRMAN SUZUKI: Dr. Zero?

19 DR. ZERO: Yes.

20 CHAIRMAN SUZUKI: Dr. Zuniga?

21 DR. ZUNIGA: Yes.

22 CHAIRMAN SUZUKI: Representatives.

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1 Ms. Howe?

2 MS. HOWE: Yes.

3 CHAIRMAN SUZUKI: Mr. Schechter?

4 MR. SCHECHTER: Yes.

5 CHAIRMAN SUZUKI: Consultants.

6 Dr. Bakland?

7 DR. BAKLAND: Yes.

8 CHAIRMAN SUZUKI: Dr. Demko?

9 DR. DEMKO: Yes.

10 CHAIRMAN SUZUKI: 4:1 in favor of yes.

11 MS. SHULMAN: Thank you.

12 Number seven, if there is sufficient  
13 information to establish special controls to provide  
14 reasonable assurance of safety and effectiveness,  
15 identify the special controls needed to provide such  
16 reasonable assurance for a Class II device.

17 Again, the division presented the guidance  
18 document, but you are also welcome to check any of the  
19 other boxes on the sheet or add any others.

20 CHAIRMAN SUZUKI: Okay, beginning with Dr.  
21 Amar?

22 DR. AMAR: Guidance document and

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1 performance standards.

2 CHAIRMAN SUZUKI: Dr. Cochran?

3 DR. COCHRAN: Guidance.

4 CHAIRMAN SUZUKI: Dr. O'Brien?

5 DR. O'BRIEN: Guidance document,  
6 performance standards, device tracking, and testing  
7 guidelines.

8 CHAIRMAN SUZUKI: Dr. Zero?

9 DR. ZERO: Guidance document.

10 CHAIRMAN SUZUKI: Dr. Zuniga?

11 DR. ZUNIGA: Guidance document and testing  
12 guidelines.

13 CHAIRMAN SUZUKI: Representatives.

14 Ms. Howe?

15 MS. HOWE: Guidance document, performance  
16 standards.

17 CHAIRMAN SUZUKI: Mr. Schechter?

18 MR. SCHECHTER: Guidance document, and my  
19 experience with IEC standards, especially the specific  
20 60601, that deal with specific device groups, the  
21 standards are generally very specific and often  
22 difficult to comply with. So, my recommendation would

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1 be that the FDA consider compliance with that standard  
2 to be almost a benchmark. Those standards generally  
3 handle all kinds of issues dealing with the safety of  
4 the device, the performance of the device, patient  
5 interlocks, things like that.

6 So, other than a guidance document or,  
7 perhaps, included in the guidance document, to suggest  
8 that compliance with that standard be paramount.

9 DR. ZERO: Point of clarification.

10 CHAIRMAN SUZUKI: Yes, Dr. Zero?

11 DR. ZERO: If we go with the guidance  
12 document, can we capture that last point with just the  
13 guidance document, or do we need to go to one of the  
14 other boxes?

15 MS. SHULMAN: You can capture it in the  
16 guidance document, and we would put that the device  
17 should be subject to that. A guidance document is not  
18 long, so they can address other ways of addressing  
19 those concerns.

20 The performance standard would be law or  
21 regulation, in that case they would absolutely have to  
22 address it.

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1 CHAIRMAN SUZUKI: Okay.

2 DR. ZERO: Can I add to my check off of  
3 performance standard.

4 CHAIRMAN SUZUKI: Yes, Dr. Zero.

5 CHAIRMAN SUZUKI: The consultants.

6 Dr. Bakland?

7 DR. BAKLAND: Guidance document and  
8 performance standard.

9 CHAIRMAN SUZUKI: Dr. Demko?

10 DR. DEMKO: Guidance document and  
11 performance standard.

12 CHAIRMAN SUZUKI: Okay. We do have a  
13 consensus on the guidance document. However, there  
14 are other discussions that might be applicable for  
15 some of the performance standards and testing  
16 guidelines. Would you either like to revote on that,  
17 or would you like to reopen the discussion, or would  
18 you feel comfortable in, because it's a minority  
19 opinion now, I'd like to ask the Panel what they'd  
20 choose.

21 MS. SHULMAN: Just one matter of  
22 clarification. The guidance document you can put the

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1 requirement into the guidance document. When I said  
2 the company doesn't have to follow it, if they don't  
3 follow that exactly they would have to explain how  
4 they followed something close to it or deviated from  
5 it. So, it's not that they would get out of that  
6 totally in the guidance document. It's just the  
7 performance standard is regulation, written into the  
8 regulation, and the guidance document is not.

9 CHAIRMAN SUZUKI: Okay.

10 So, despite the fact that some of the  
11 Panel members recommended performance standards and  
12 testing guidelines, does the Panel feel comfortable in  
13 going with just guidance document? Are there any  
14 objections?

15 Okay, Ms. Howe?

16 MS. HOWE: My concern would be that unless  
17 it's specified the performance standards, that if, in  
18 fact, the instruction on this equipment is by sales  
19 representatives that they be held to some kind of a  
20 standard, that they would give the best instruction  
21 possible to the user, that they realize that this is  
22 an emphatic, as opposed to a suggestion.

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1 CHAIRMAN SUZUKI: Okay.

2 Dr. O'Brien?

3 DR. O'BRIEN: Since the device has been  
4 around for a long time, and Dr. Bakland indicates that  
5 it's a hit or miss type of device, I think we have to  
6 consider this as a possible, in the category of  
7 medical devices of the 19<sup>th</sup> Century, that they may work  
8 for some patients but not others, and to -- so, I  
9 would say, because of the possibility, and I've seen  
10 this happen, that devices in dentistry can get new  
11 marketing life with a campaign, and young  
12 practitioners go to seminars in Costa Rica, whatever,  
13 and can get very enthusiastic about things, don't  
14 think that this now that seems to be going obsolete  
15 couldn't come back again, relatively quickly,  
16 depending on the marketing budget.

17 So that, it needs a lot of controls  
18 without clinical studies to back it up.

19 CHAIRMAN SUZUKI: Okay, so you are  
20 recommending further testing guidelines?

21 DR. O'BRIEN: I would put -- yes, because I  
22 would put all the restrictions possible on it, because

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1 it's a suspect device, in terms of clinical  
2 effectiveness and possible harm if the voltages were  
3 changed in order to make it more effective. And, on  
4 the other hand, you could get more side effects from  
5 that.

6 CHAIRMAN SUZUKI: Any other comments or  
7 discussion?

8 Dr. Cochran?

9 DR. COCHRAN: Yes. If the voltage is  
10 changed, then it's not going to fit into the guidance  
11 document. So, it seems like to me we are thinking  
12 about if you change the device, and we are not looking  
13 to change the device, so we are looking at classifying  
14 the devices that are on the market, given the low  
15 voltage that already exists.

16 And, I think really market pressure will,  
17 indeed, drive it, even if they come out with a big  
18 marketing campaign, if it's not effective, then it's  
19 not going to be effective. But, it's going to have to  
20 fit, based on the guidance document, it's going to  
21 have to fit with the pre-existing devices.

22 CHAIRMAN SUZUKI: In light of the

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1 additional discussion, I'd like to call for an  
2 additional vote for sufficient information to  
3 establish special controls with respect to performance  
4 standards and testing guidelines. Guidance documents  
5 is unanimous at this point.

6 So, beginning first with performance  
7 standards, I'll begin first with Dr. Amar, a yes or a  
8 no?

9 DR. AMAR: Yes.

10 CHAIRMAN SUZUKI: Dr. Cochran?

11 DR. COCHRAN: No.

12 CHAIRMAN SUZUKI: Dr. O'Brien?

13 DR. O'BRIEN: Yes.

14 CHAIRMAN SUZUKI: Dr. Zero?

15 DR. ZERO: Yes.

16 CHAIRMAN SUZUKI: Dr. Zuniga?

17 DR. ZUNIGA: Yes.

18 CHAIRMAN SUZUKI: Okay, 4:1 in favor of  
19 including performance standards.

20 MS. SHULMAN: Thank you.

21 CHAIRMAN SUZUKI: Next, testing guidelines,  
22 beginning with Dr. Amar?

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1 DR. AMAR: No.

2 CHAIRMAN SUZUKI: Dr. Cochran?

3 DR. COCHRAN: No.

4 CHAIRMAN SUZUKI: Dr. O'Brien?

5 DR. O'BRIEN: Yes.

6 CHAIRMAN SUZUKI: Dr. Zero?

7 DR. ZERO: No.

8 CHAIRMAN SUZUKI: Dr. Zuniga?

9 DR. ZUNIGA: Yes.

10 CHAIRMAN SUZUKI: 3:2 in favor of no. So,  
11 testing guidelines is not included.

12 MS. SHULMAN: Okay.

13 CHAIRMAN SUZUKI: So, we will summarize by  
14 saying the guidance document and performance  
15 standards.

16 MS. SHULMAN: Thank you.

17 CHAIRMAN SUZUKI: Okay, a question, Dr.  
18 Lin?

19 DR. LIN: When you mention about  
20 performance standard, do you have any idea of what  
21 kind of performance standard are we talking about,  
22 because when you indicate performance standard in

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1 agency, FDA has to publish the regulation denoting  
2 that all the device would meet that type of  
3 performance standard.

4 I give an example, I think one of the few  
5 device that the agency has a performance standard, one  
6 is a hearing aid. So, they have a standard put out by  
7 all the EMTs and they come and say, well, you have to  
8 get to a certain type of sensitivity before you  
9 qualify as a hearing aid. So, for this type of  
10 device, what kind of performance standard you  
11 recommend, that will help the agency.

12 CHAIRMAN SUZUKI: Okay.

13 Comments from the four yeses.

14 Dr. Amar?

15 DR. AMAR: What I think when I suggested  
16 performance standard, I think the public needs to  
17 know, or have some kind of idea, on in how many cases  
18 this device would work, a sense of efficacy, I would  
19 say. That's what I meant by performance standard. Is  
20 it completely magic, or it works in certain cases, and  
21 in how many cases it works.

22 I think some of the question may come up

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1 from the public to the dentist and say, look, does it  
2 work or not?

3 CHAIRMAN SUZUKI: But, my understanding is,  
4 because of May 28, 1976, we can request but not  
5 require, is this the case?

6 MS. SHULMAN: Correct, it was out on the  
7 market prior to May 28, 1976, so anything now that's  
8 introduced can be found substantially equivalent, and  
9 you have to be at least as safe and effective, or,  
10 essentially, at least as unsafe and ineffective, as  
11 the predicate device.

12 DR. AMAR: What are the standards for  
13 efficacy or effectiveness, that's what I want to know.  
14 Safety I know, but efficacy.

15 MS. SHULMAN: I don't know if there's one  
16 standard for effectiveness.

17 CHAIRMAN SUZUKI: Once again, because it's  
18 pre '76 there doesn't have to be a standard.

19 Dr. Zero?

20 DR. ZERO: So, in effect, if we have a  
21 performance standard that we set for all new devices,  
22 in other words, they have to show they are as

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1 effective as a device that's maybe not effective, I  
2 mean, how do you design a study to do that? I don't  
3 know how to do that.

4 CHAIRMAN SUZUKI: Dr. Lin?

5 DR. LIN: Well, actually, the performance  
6 standard has a very special meaning in terms of FDA's  
7 term, that's become a requirement, that all this type  
8 of device have meet those type of standards.

9 But, I think that from Dr. Amar's comment,  
10 it's more a question about whether the effectiveness  
11 of this device, but in that case when we have a  
12 guidance document we can recommend that the company  
13 submit, for example, clinical standard to show that  
14 whether the device actually is effective in producing  
15 pain relief or anesthesiology, anesthesia, or not, so  
16 that we can recommend some clinical standard.

17 CHAIRMAN SUZUKI: Dr. Zero?

18 DR. ZERO: My expectation is that this  
19 device probably has a strong placebo effect, and that  
20 if it's done, if you run a placebo-controlled study  
21 you will probably see no effect, but that's just a  
22 hypothesis, it may not be correct.

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1           So, if you ran a placebo-controlled study  
2 to test equivalency, it's going to be as good as the  
3 previous device, which you won't be able to break from  
4 placebo.

5           So, I mean, I don't know how to go with  
6 this experimentally, because it's -- the only way you  
7 can do it is not run a control. If you don't run a  
8 control, you can show that they are the same.

9           CHAIRMAN SUZUKI: Dr. Cochran?

10          DR. COCHRAN: Could we address this concern  
11 by adding to the labeling that the device may not  
12 provide adequate analgesia or anesthesia, and get  
13 around the concern that everybody is struggling with?

14          CHAIRMAN SUZUKI: Eliminate the performance  
15 standard and incorporate that statement in the  
16 guidance document.

17          DR. O'BRIEN: I have a comment.

18          CHAIRMAN SUZUKI: Dr. O'Brien is speaking.

19          DR. O'BRIEN: Yes. There are many  
20 performance standards for devices for use in  
21 laboratories, such as devices that operate at a  
22 certain voltage, they should be checked that they are

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1 operating at certain voltage. Or, if you have a  
2 colorimeter, for example, that measures color, that  
3 there's usually a test standard that comes with it,  
4 and you first calibrate the device, or see if it's  
5 working by its reading in accordance with the reading  
6 it should have. I think of that is a performance  
7 standard, not in terms of the clinical performance.

8 CHAIRMAN SUZUKI: Okay.

9 Ms. Howe?

10 MS. HOWE: Is that not, in fact, what the  
11 standard, the IEC 60601-2-10, provides us, that we are  
12 just assuming that they must meet that standard, that  
13 we don't have to establish something new here at the  
14 Panel?

15 CHAIRMAN SUZUKI: Okay.

16 Dr. Lin?

17 DR. LIN: The IEC standard is a small  
18 electrical -- other than actual clinical performance  
19 standard.

20 CHAIRMAN SUZUKI: Thank you.

21 Other comments, questions?

22 DR. RUNNER: Marjorie, correct me if I'm

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1 wrong --

2 CHAIRMAN SUZUKI: This is Dr. Runner  
3 speaking.

4 DR. RUNNER: -- I'm sorry, if the Panel is  
5 concerned about effectiveness of the device in  
6 general, then the -- and requiring clinical data to  
7 support effectiveness, wouldn't that push it over into  
8 a different classification?

9 MS. SHULMAN: Not necessarily, because you  
10 can require clinical data in a 510(k), so you can  
11 recommend that clinical data be needed to find these  
12 devices substantially equivalent.

13 DR. RUNNER: So that, they could make a  
14 recommendation that the guidance document include  
15 clinical data to substantiate effectiveness.

16 MS. SHULMAN: Correct.

17 CHAIRMAN SUZUKI: Then, perhaps, in light  
18 of the further discussion, we can go back, I'd like to  
19 request that we go back and revisit at least  
20 performance standards as an inclusion.

21 Would anyone have an objection to that?

22 Hearing none, I'd like to revote on

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1 performance standards to be included in the  
2 recommendation for number seven.

3 Okay, Dr. Amar?

4 DR. AMAR: Yes.

5 CHAIRMAN SUZUKI: Dr. Cochran?

6 DR. COCHRAN: No.

7 CHAIRMAN SUZUKI: Dr. O'Brien?

8 DR. O'BRIEN: Yes, but that could be the  
9 electrical device standard that you mentioned.

10 MS. SHULMAN: Marjorie Shulman, I just want  
11 to clarify something. That would be -- no, I'm sorry,  
12 I guess you are right, it could be a performance  
13 standard and be required, sorry.

14 DR. COCHRAN: Isn't that already in the  
15 special control, though?

16 MS. SHULMAN: It is in the special control,  
17 but --

18 DR. COCHRAN: Because you've already got  
19 that listed, so it's already there.

20 CHAIRMAN SUZUKI: Dr. Zero?

21 DR. ZERO: I'm going to change my vote to  
22 no, because this is a catch-22.

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1 CHAIRMAN SUZUKI: Dr. Zuniga?

2 DR. ZUNIGA: Yes.

3 CHAIRMAN SUZUKI: Okay, 3:2 in favor of  
4 including performance standard.

5 MS. SHULMAN: Okay, performance standard.

6 CHAIRMAN SUZUKI: In addition to guidance  
7 document.

8 MS. SHULMAN: Okay, question number eight  
9 we haven't seen yet. If a regulatory performance  
10 standard is --

11 DR. COCHRAN: Excuse me, I have one  
12 question. What is the performance standard going to  
13 be?

14 MS. SHULMAN: That performance standard  
15 will go out, it will be -- we'll gather the comments  
16 from this Panel meeting, and then we'll put one  
17 together, and they have to go out for comment to see  
18 if anyone has any comments what would have to be in  
19 the performance standard, and then it would be final.

20 CHAIRMAN SUZUKI: Okay.

21 Dr. Amar?

22 DR. AMAR: Wouldn't we include clinical

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1 effectiveness, that's what we were talking about, am I  
2 correct?

3 DR. COCHRAN: But, she said that could be  
4 included in the 510(k) and the guidance documents.  
5 So, I think you are putting something out there for  
6 the industry people to meet that is a little bit  
7 unnecessary and may not even be achievable.

8 CHAIRMAN SUZUKI: Okay, we've already voted  
9 three times on this, so let's move on.

10 MS. SHULMAN: Correct, and we have your  
11 recommendation, and again, after this is over the  
12 proposed regulation will go out and we're going to  
13 gather comments, and it may be that that's not  
14 included.

15 CHAIRMAN SUZUKI: Dr. Zero?

16 DR. ZERO: The sense I have of this is  
17 right now we are setting up the FDA in, perhaps, an  
18 untenable position of developing a performance  
19 standard that will fail when being tested as it goes  
20 forward, because you will -- if you are going to give  
21 -- if you are going to present the performance  
22 standard for the industry to meet, and they can't

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1 design -- a study can't be designed, or criteria can't  
2 be identified and tested, it doesn't go anywhere. It  
3 just ties up the FDA into a circular process, and it  
4 just used up the energy of the FDA in a non-productive  
5 way.

6 That's why I changed my vote, that's what  
7 I mean by a catch-22.

8 MS. SHULMAN: Thank you for your comments,  
9 but since we have voted three times we will leave that  
10 as a recommendation.

11 CHAIRMAN SUZUKI: Okay.

12 MS. SHULMAN: Question eight, if a  
13 regulatory performance standard is needed to provide  
14 reasonable assurance of a Class II or III device,  
15 identify the priority. Again, there's no time frames  
16 associated with these, low, medium, high.

17 CHAIRMAN SUZUKI: Okay, beginning first  
18 with Dr. Amar, low, medium or high?

19 DR. AMAR: Low.

20 CHAIRMAN SUZUKI: Dr. Cochran?

21 DR. COCHRAN: Low.

22 CHAIRMAN SUZUKI: Dr. O'Brien?

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1 DR. O'BRIEN: Low.

2 CHAIRMAN SUZUKI: Dr. Zero?

3 DR. ZERO: Low.

4 CHAIRMAN SUZUKI: Dr. Zuniga?

5 DR. ZUNIGA: Low.

6 CHAIRMAN SUZUKI: Representatives.

7 Ms. Howe?

8 MS. HOWE: I'm going to say low, but I  
9 think I do so because we don't anticipate these  
10 products being hurried into the marketplace, but we  
11 assume that by saying low it will be considered at  
12 some point.

13 CHAIRMAN SUZUKI: Okay, Mr. Schechter?

14 MR. SCHECHTER: Whatever category is below  
15 low.

16 CHAIRMAN SUZUKI: I'll take that as a low.

17 Dr. Bakland?

18 DR. BAKLAND: Low.

19 CHAIRMAN SUZUKI: Dr. Demko?

20 DR. DEMKO: Low.

21 CHAIRMAN SUZUKI: Okay, unanimous, low  
22 priority.

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1 MS. SHULMAN: Thank you.

2 Number nine is not applicable because  
3 that's for a reclassification, this is a  
4 classification.

5 Number ten, question ten, we can skip.

6 Question 11, is the prescription device,  
7 but then you can add any needed restrictions, use only  
8 by persons with specific training or experience, or  
9 use only in certain facilities.

10 CHAIRMAN SUZUKI: So, if we leave it as a  
11 prescription device it will be box one.

12 MS. SHULMAN: Correct.

13 CHAIRMAN SUZUKI: Okay, beginning first,  
14 Dr. Amar?

15 DR. AMAR: Box 1.

16 CHAIRMAN SUZUKI: Dr. Cochran?

17 DR. COCHRAN: Box 1.

18 CHAIRMAN SUZUKI: Dr. O'Brien?

19 DR. O'BRIEN: Box 1.

20 CHAIRMAN SUZUKI: Dr. Zero?

21 DR. ZERO: First box.

22 CHAIRMAN SUZUKI: Dr. Zuniga?

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1 DR. ZUNIGA: First box..

2 CHAIRMAN SUZUKI: Representatives.

3 Ms. Howe?

4 MS. HOWE: One and two, I think specific  
5 training is beyond that of regular dental school  
6 instruction.

7 CHAIRMAN SUZUKI: Okay, Mr. Schechter?

8 MR. SCHECHTER: First box.

9 CHAIRMAN SUZUKI: Consultants.

10 Dr. Bakland?

11 DR. BAKLAND: Box 1.

12 CHAIRMAN SUZUKI: Dr. Demko?

13 DR. DEMKO: First box.

14 CHAIRMAN SUZUKI: Okay, it's unanimous,  
15 first box.

16 MS. SHULMAN: Thank you.

17 Now we can move on to the supplemental  
18 data sheet. Okay, again, if you could put your names  
19 on the top, the generic type of device, the Advisory  
20 Panel, and question number three, is the device an  
21 implant, no.

22 Number four, the indications for use, you

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1 can say as agreed upon during the Panel meeting, as up  
2 on the overhead, or you can add anything that you wish  
3 to at this point.

4 No additional comments?

5 CHAIRMAN SUZUKI: Any other comments?

6 None.

7 MS. SHULMAN: Question five, the  
8 identification of risk to health by presenting the  
9 device. There were two overheads identifying the  
10 risks to health and the proposed mitigations. We can  
11 add anything else you care to at this time.

12 DR. ZUNIGA: I don't know if this fits into  
13 this category --

14 CHAIRMAN SUZUKI: This is Dr. Zuniga.

15 DR. ZUNIGA: -- but I'd be concerned about  
16 using this device concerning the adverse events while  
17 under general anesthesia.

18 MS. SHULMAN: Thank you. Most likely we  
19 will take those comments and add them on to number  
20 nine for the needed labeling restrictions.

21 If there are no other comments with the  
22 identification of the risks to health, then you can

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1 say as presented during the Panel meeting.

2 Number six, the recommended Advisory  
3 classification and priority. The classification is  
4 Class II, and again, the priority is high, medium or  
5 low.

6 CHAIRMAN SUZUKI: Okay. I'll poll the  
7 Panel, beginning first with Dr. Amar, low, medium or  
8 high.

9 DR. AMAR: Low.

10 CHAIRMAN SUZUKI: Dr. Cochran?

11 DR. COCHRAN: Low.

12 CHAIRMAN SUZUKI: Dr. O'Brien?

13 DR. O'BRIEN: Low.

14 CHAIRMAN SUZUKI: Dr. Zero?

15 DR. ZERO: Low.

16 CHAIRMAN SUZUKI: Dr. Zuniga?

17 DR. ZUNIGA: Low.

18 CHAIRMAN SUZUKI: Representatives.

19 Ms. Howe?

20 MS. HOWE: Low.

21 CHAIRMAN SUZUKI: Mr. Schechter?

22 MR. SCHECHTER: Low.

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1 CHAIRMAN SUZUKI: Consultants.

2 Dr. Bakland?

3 DR. BAKLAND: Low.

4 CHAIRMAN SUZUKI: Dr. Demko?

5 DR. DEMKO: Low.

6 CHAIRMAN SUZUKI: Unanimous, low.

7 MS. SHULMAN: Thank you.

8 Number seven we may skip, because it is  
9 not an implant or life-sustaining or life-supporting.

10 Number eight, the summary of clinical  
11 experience or judgment upon which the classification  
12 recommendation is based, we can say as presented  
13 during the Panel meeting, or you can add anything else  
14 you wish to at this time.

15 No other comments.

16 Number nine, the identification of any  
17 needed restrictions for the use of the device, it is a  
18 prescription device, that will be a restriction, and  
19 we do have a comment, the Panel comments about the  
20 additional needed labeling. If there are anymore.

21 CHAIRMAN SUZUKI: Any comments? None.

22 MS. SHULMAN: Thank you.

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1                   Number ten we will skip.

2                   Number 11, if device is recommended for  
3 Class II recommend whether the Panel should exempt it  
4 from pre-market notification.

5                   CHAIRMAN SUZUKI: Okay, I'll begin with Dr.  
6 Amar, exempt or non-exempt?

7                   DR. AMAR: Not exempt.

8                   CHAIRMAN SUZUKI: Dr. Cochran?

9                   DR. COCHRAN: Not exempt.

10                  CHAIRMAN SUZUKI: Dr. O'Brien?

11                  DR. O'BRIEN: Not exempt.

12                  CHAIRMAN SUZUKI: Dr. Zero?

13                  DR. ZERO: Not exempt.

14                  CHAIRMAN SUZUKI: Dr. Zuniga?

15                  DR. ZUNIGA: Not exempt.

16                  CHAIRMAN SUZUKI: Representatives.

17                  Ms. Howe?

18                  MS. HOWE: Not exempt.

19                  CHAIRMAN SUZUKI: Mr. Schechter?

20                  MR. SCHECHTER: Not exempt.

21                  CHAIRMAN SUZUKI: Consultants.

22                  Dr. Bakland?

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1 DR. BAKLAND: Not exempt.

2 CHAIRMAN SUZUKI: Dr. Demko?

3 DR. DEMKO: Not exempt.

4 CHAIRMAN SUZUKI: Unanimous, not exempt.

5 MS. SHULMAN: Thank you.

6 And, besides the ones listed in question  
7 12, besides these standards listed in the  
8 presentation, any other existing ones that you all  
9 know of?

10 CHAIRMAN SUZUKI: Any questions,  
11 discussion? No.

12 MS. SHULMAN: Okay.

13 Now, if you can please vote on the form as  
14 filled out as a Class II device, not 510(k) exempt,  
15 subject to pre-market notification, subject to the  
16 guidance document and performance standards.

17 CHAIRMAN SUZUKI: Okay, I will poll in  
18 order again, in favor or opposed.

19 Dr. Amar?

20 DR. AMAR: In favor.

21 CHAIRMAN SUZUKI: Dr. Cochran?

22 DR. COCHRAN: In favor.

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1 CHAIRMAN SUZUKI: Dr. O'Brien?

2 DR. O'BRIEN: In favor.

3 CHAIRMAN SUZUKI: Dr. Zero?

4 DR. ZERO: In favor.

5 CHAIRMAN SUZUKI: Dr. Zuniga?

6 DR. ZUNIGA: In favor.

7 CHAIRMAN SUZUKI: Representatives.

8 Ms. Howe?

9 MS. HOWE: In favor.

10 CHAIRMAN SUZUKI: Mr. Schechter?

11 MR. SCHECHTER: In favor.

12 CHAIRMAN SUZUKI: Consultants.

13 Dr. Bakland?

14 DR. BAKLAND: In favor.

15 CHAIRMAN SUZUKI: Dr. Demko?

16 DR. DEMKO: In favor.

17 CHAIRMAN SUZUKI: Unanimous, in favor.

18 MS. SHULMAN: Thank you very much.

19 CHAIRMAN SUZUKI: Okay, we have now reached  
20 the end of today's agenda. We'll reconvene tomorrow  
21 morning at 8:00 a.m., and at that time we'll have  
22 discussions on proposed classifications of root canal

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1       cleanser, root apex locator, and dental mouth guards.

2                       I call for adjournment.

3                       (Whereupon, the above-entitled matter was  
4       concluded at 2:34 p.m., to reconvene tomorrow morning  
5       at 8:00 a.m.)

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